



# TUDERTECHNICA

excellence in design and manufacture of specialty hoses



[www.tudertecnica.com](http://www.tudertecnica.com)





**TUDERTECHNICA**  TUDERTECHNICA designs and manufactures speciality technical hoses for a wide range of applications in the food, chemical and for other industries requiring high performance hoses.

TUDERTECHNICA operates in a modern and efficient manufacturing plant employing the rigid mandrel production process.

TUDERTECHNICA's core capabilities encompass ingenuity and innovation, customized design capability and flexible production capability. All of these capabilities are focused to provide solutions for Customers.

TUDERTECHNICA has strong global brand recognition and a reputation for high quality products.

TUDERTECHNICA hoses are sold by an experienced global sales team and its products are valued by customers on every continent.

TUDERTECHNICA has achieved and maintains all the essential ISO certifications.

TUDERTECHNICA's goal is to provide solution for customers through innovative hose design and rapid customer response.

TUDERTECHNICA manufactures hoses according to European Reglement 2023/2006/EC (GMP) about good manufacturing practice for materials and articles intended to come into contact with food.

**FOOD HOSES**

TUFOOD/NATURAL .....	pag. 06
TUFOOD/FAT .....	pag. 07
TUFOOD/EPDM .....	pag. 08
TUPRESTIGE .....	pag. 09
TUACQUA/KTW .....	pag. 10
TUBLUESTREAM .....	pag. 11
TUSIL BRIGHT .....	pag. 12
TUSIL BRIGHT/D .....	pag. 13

**CRUSH RESISTANT FOOD HOSES**

TUFOOD/FAT CRUSH RESISTANT .....	pag. 14
TUFOOD/NATURAL CRUSH RESISTANT.....	pag. 15
TUFOOD/EPDM CRUSH RESISTANT.....	pag. 15
TUPRESTIGE CRUSH RESISTANT.....	pag. 15

**SPIRALTECH FOOD HOSES**

SPIRALTECH NR.....	pag. 16
SPIRALTECH NITRILE.....	pag. 17
SPIRALTECH EPDM.....	pag. 17
SPIRALTECH BUTYL.....	pag. 17

**GLIDETECH FOOD HOSES**

GLIDETECH BUTYL.....	pag. 18
GLIDETECH NR.....	pag. 19
GLIDETECH NITRILE.....	pag. 19
GLIDETECH EPDM.....	pag. 19

**DAIRY HOSES**

MILKFLEX.....	pag. 20
MILKFLEX EXTRA LIGHT.....	pag. 21
MILKFLEX PLUS.....	pag. 21
MILKFLEX CRUSH RESISTANT.....	pag. 21
MILKFLEX FAT.....	pag. 22
GLIDETECH DAIRY.....	pag. 23

**BREWERY, CELLAR & DISTILLERY HOSES**

BREWERY/EPDM D.....	pag. 24
BREWERY/EPDM.....	pag. 25
BREWERY/BUTYL D.....	pag. 26
BREWERY/BUTYL.....	pag. 27
BREWERY/UPE.....	pag. 28
GLIDETECH BREWERY HD.....	pag. 29
GLIDETECH VINEYARD.....	pag. 30
GLIDETECH VINEYARD HD.....	pag. 31
SPIRALTECH VINEYARD .....	pag. 32
GLIDETECH DISTILLERY .....	pag. 33
TUALCOMASTER.....	pag. 34

**DRY FOOD HOSES**

DRYFOOD ANTISTATIC D.....	pag. 35
DRYFOOD ANTISTATIC.....	pag. 36
TUSILO/PU FORM.....	pag. 37
SPIRALTECH PU.....	pag. 38

## PETROL HOSES

TUPETROL MASTER .....	pag. 40
TUWAGON MASTER .....	pag. 41
SPIRALTECH FUEL .....	pag. 42

## CHEMICAL HOSES

TUCHEM EPDM .....	pag. 43
TUCHEM VITON .....	pag. 44
TUCHEM UPE .....	pag. 45
TUCHEM UPE FULL CONDUCTIVE .....	pag. 46
TUCHEM UPE CHIPS FULL CONDUCTIVE .....	pag. 47
GLIDETECH UPE FULL CONDUCTIVE .....	pag. 48
SPIRALTECH UPE CONDUCTIVE .....	pag. 49
GPS EVOLUTION .....	pag. 50

## FLUOROPOLYMER HOSES

TUFLON PFA CHEM .....	pag. 51
TUFLON PTFE CHEM .....	pag. 52
TUFLON PTFE CHEM FULL CONDUCTIVE .....	pag. 53

# COSMETIC & PHARMACEUTICAL APPLICATION

TUCHEM UPE CHIPS PHARM. ....	pag. 54
------------------------------	---------

## FLUOROPOLYMER HOSES

TUFLON PFA PHARM. ....	pag. 55
TUFLON PTFE PHARM. ....	pag. 56
TUFLON PTFE BIOTECH .....	pag. 57
GLIDETECH PTFE BIOTECH. ....	pag. 58

## SILICONE HOSES

TUFLON PTFE SIL. ....	pag. 59
TUSIL BRIGHT. ....	pag. 60
TUSIL BRIGHT/D. ....	pag. 61
TUSILPURE. ....	pag. 62

# SILICONE INDUSTRIAL APPLICATION

## COOLING SYSTEM HOSES

TUSIL RAD. ....	pag. 64
TUSIL RADFLEX. ....	pag. 65

## MARINE HOSES

TUSIL MARINE. ....	pag. 66
TUSIL MARINE OND. ....	pag. 67

## OTHERS

TUSIL CRYO. ....	pag. 68
TUSIL GLASS. ....	pag. 69

# MATERIAL HANDLING APPLICATION

MARMOTECH. ....	pag. 70
ALUMINUM COUPLINGS. ....	pag. 71
STEELBLAST. ....	pag. 72
DREDGING HOSES. ....	pag. 73
PERISTALTICO. ....	pag. 74

## ACCESSORIES

COUPLINGS. ....	pag. 76
ENDS/FITTINGS. ....	pag. 77
CHEMICAL CHART. ....	pag. 78
CLEANING AND DISINFECTION. ....	pag. 88
 WARNING. ....	pag. 89

## TUFOOD/NATURAL



Suction and delivery hose suitable for milk, milk by-products, wine and non fatty food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION

**Tube** NR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006. RAL REGISTRATION G-72

**Reinforcement** synthetic plies, galvanized wire helices

**Cover** smooth, red, abrasion, ageing and ozone resistant, cloth finish

**Sterilization** refer to guidelines for cleaning and sanitizing on Tudertecnica website

**Marking** TUDERTECHNICA TUFOOD/NATURAL

TUDERTECHNICA TU**FOOD/NATURAL**

### TECHNICAL CHARACTERISTICS

**Temperature range** -40°C / +80°C ( -40°F / +176°F )

**Vacuum** 675 mmHg ( 26,6 inHg )

**Norm** ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	31	1,22	10	150	30	450	0,66	0,44	60	2,36
25	1,00	37	1,46	10	150	30	450	0,81	0,54	85	3,35
32	1,25	44	1,73	10	150	30	450	1,00	0,67	115	4,53
38	1,50	51	2,00	10	150	30	450	1,28	0,86	150	5,91
51	2,00	64	2,52	10	150	30	450	1,66	1,11	210	8,27
63,5	2,50	78,5	3,09	10	150	30	450	2,52	1,69	265	10,43
76	3,00	91	3,58	10	150	30	450	2,97	1,99	320	12,60
102	4,00	118	4,65	10	150	30	450	4,16	2,79	430	16,93

Other diameters, wall thickness, cover colours and pressure only on specific request.  
Data refer to ambient temperature (20°C).



## TUFOOD/FAT



Suction and delivery hose suitable for fatty and non fatty food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION

#### Tube

NBR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II. RAL REGISTRATION G-73

#### Reinforcement

synthetic plies, galvanized wire helices

#### Cover

smooth, blue, abrasion, ageing, ozone and oil resistant, cloth finish

#### Sterilization

refer to guidelines for cleaning and sanitizing on Tudertecnica website

#### Marking

TUDERTECHNICA TUFOOD/FAT

TUDERTECHNICA TUFOOD/FAT

### TECHNICAL CHARACTERISTICS

#### Temperature range

-25°C / +80°C ( -13°F / +176°F )

#### Vacuum

675 mmHg ( 26,6 inHg )

#### Norm

ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	31	1,22	10	150	30	450	0,74	0,50	60	2,36
25	1,00	37	1,46	10	150	30	450	0,91	0,61	85	3,35
32	1,25	44	1,73	10	150	30	450	1,12	0,75	115	4,53
38	1,50	51	2,00	10	150	30	450	1,40	0,94	150	5,91
51	2,00	64	2,52	10	150	30	450	1,80	1,21	210	8,27
63,5	2,50	78,5	3,09	10	150	30	450	2,70	1,81	265	10,43
76	3,00	91	3,58	10	150	30	450	3,17	2,12	320	12,60
102	4,00	118	4,65	10	150	30	450	4,42	2,96	430	16,93

Other diameters, wall thickness, cover colours and pressure only on specific request. Data refer to ambient temperature (20°C).



## TUFOOD/EPDM



Suction and delivery hose suitable for a wide range of food products. Not recommended for fatty food products and oil. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION

**Tube**

EPDM, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II. RAL REGISTRATION G-74

**Reinforcement**

synthetic plies, galvanized wire helices

**Cover**

smooth, red, abrasion, ageing and ozone resistant, cloth finish

**Sterilization**

refer to guidelines for cleaning and sanitizing on Tudertechnica website

**Marking**

TUDERTECHNICA TUFOOD/EPDM



### TECHNICAL CHARACTERISTICS

**Temperature range**

-40°C / +120°C ( -40°F / +248°F )

**Vacuum**

675 mmHg ( 26,6 inHg )

**Norm**

ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	31	1,22	10	150	30	450	0,70	0,47	60	2,36
25	1,00	37	1,46	10	150	30	450	0,85	0,57	85	3,35
32	1,25	44	1,73	10	150	30	450	1,04	0,70	115	4,53
38	1,50	51	2,00	10	150	30	450	1,31	0,88	150	5,91
51	2,00	64	2,52	10	150	30	450	1,69	1,13	210	8,27
63,5	2,50	78,5	3,09	10	150	30	450	2,55	1,71	265	10,43
76	3,00	91	3,58	10	150	30	450	2,99	2,00	320	12,60
102	4,00	118	4,65	10	150	30	450	4,18	2,80	430	16,93

Other diameters, wall thickness, cover colours and pressure only on specific request. Data refer to ambient temperature (20°C).





## TUPRESTIGE



Premium grade low permeation suction and delivery hose suitable for a wide range of products. Recommended for wine and spirits. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION

**Tube** IIR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II

**Reinforcement** synthetic plies, galvanized wire helices

**Cover** smooth, red, abrasion, ageing and ozone resistant, cloth finish

**Sterilization** refer to guidelines for cleaning and sanitizing on Tudertecnica website

**Marking** TUDERTECHNICA TUPRESTIGE



### TECHNICAL CHARACTERISTICS

**Temperature range** -40°C / +120°C ( -40°F / +248°F )

**Vacuum** 675 mmHg ( 26,6 inHg )

**Norm** ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	31	1,22	10	150	30	450	0,71	0,48	60	2,36
25	1,00	37	1,46	10	150	30	450	0,87	0,58	85	3,35
32	1,25	44	1,73	10	150	30	450	1,06	0,71	115	4,53
38	1,50	51	2,00	10	150	30	450	1,34	0,90	150	5,91
51	2,00	64	2,52	10	150	30	450	1,72	1,15	210	8,27
63,5	2,50	78,5	3,09	10	150	30	450	2,59	1,74	265	10,43
76	3,00	91	3,58	10	150	30	450	3,04	2,04	320	12,60
102	4,00	118	4,65	10	150	30	450	4,25	2,85	430	16,93

Other diameters, wall thickness, cover colours and pressure only on specific request. Data refer to ambient temperature (20°C).



## TUACQUA/KTW



Delivery hose suitable for potable water. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION

**Tube**

UPE, translucent, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E SEGUENTI, KTW AND W270, EUROPEAN REGLEMENT 1935/2004/CE, AND 10/2011/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006

**Reinforcement**

synthetic plies

**Cover**

smooth, blue, abrasion, ageing and ozone resistant, cloth finish

**Sterilization**

refer to guidelines for cleaning and sanitizing on Tudertecnica website

**Marking**

TUDERTECHNICA TUACQUA/KTW



### TECHNICAL CHARACTERISTICS

**Temperature range**

-35°C / +55°C ( -31°F / +131°F )

**Norm**

ISO 1307 for dimensional tolerances  
KTW class A

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
10	0,39	17,5	0,69	-	-	20	300	60	900	0,21	0,14	50	1,97
13	0,50	21,5	0,85	-	-	20	300	60	900	0,30	0,20	65	2,56
16	0,63	26	1,02	-	-	20	300	60	900	0,43	0,29	80	3,15
19	0,75	29	1,14	-	-	20	300	60	900	0,49	0,33	95	3,74
25	1,00	35	1,38	-	-	20	300	60	900	0,62	0,42	140	5,51
32	1,25	45	1,77	-	-	20	300	60	900	1,06	0,71	190	7,48
38	1,50	52	2,05	-	-	20	300	60	900	1,35	0,90	230	9,06
40	1,57	54	2,13	-	-	20	300	60	900	1,39	0,93	245	9,65
50	1,97	66	2,60	-	-	20	300	60	900	1,94	1,30	310	12,20

Other diameters, wall thickness, cover colours and pressure only on specific request.  
Data refer to ambient temperature (20°C).



## TUBLUESTREAM



Delivery hose suitable for a wide range of non fatty food products, recommended for cleaning plant and equipment with hot water mixed with steam. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION

**Tube**

EPDM, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II. RAL REGISTRATION G-74

**Reinforcement**

synthetic plies

**Cover**

smooth, blue, abrasion, ageing, ozone and oil resistant, cloth finish

**Sterilization**

refer to guidelines for cleaning and sanitizing on Tudertecnica website

**Marking**

TUDERTECHNICA TUBLUESTREAM



### TECHNICAL CHARACTERISTICS

**Temperature range**

-40°C / +164°C ( -40°F / +327°F ) The operating temperature of the hose is directly dependent upon the specific fluid been conveyed, the length of time the fluid is in contact with the hose and the working pressure

**Norm**

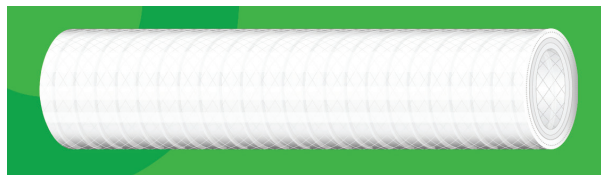
ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working Pressure (164°C)		Working Pressure (95°C)		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
10	0,39	20	0,79	6	90	20	300	60	900	0,29	0,19	-	-
13	0,50	23	0,91	6	90	20	300	60	900	0,35	0,23	-	-
16	0,63	26	1,02	6	90	20	300	60	900	0,41	0,27	-	-
19	0,75	31	1,22	6	90	20	300	60	900	0,60	0,40	-	-
25	1,00	39,5	1,56	6	90	20	300	60	900	0,93	0,62	-	-
32	1,25	46,5	1,83	6	90	20	300	60	900	1,16	0,78	-	-
38	1,50	54	2,13	6	90	20	300	60	900	1,47	0,98	-	-
51	2,00	68	2,68	6	90	20	300	60	900	2,03	1,36	-	-

Other diameters, wall thickness, cover colours and pressure only on specific request. Data refer to ambient temperature (20°C).



## TUSIL BRIGHT



Suction and delivery hose suitable for cosmetic, pharmaceutical and food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXII class VI, not cytotoxic according to ISO 10993 Section 5:2009. Meets migration test according to BfR Recommendation XV & XXI Cat. 2. Not intended for use as an implant material. Not suitable for blood or human fluids.

### DESCRIPTION

**Tube** silicone, translucent, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA CFR 21 PART 177.2600, USP XXXII class VI requirements, European Pharmacopoeia 3.1.9 Ed. VII 2011, ISO 10993 Sections 5,10,11:2009, BfR Recommendation XV & XXI Cat. 2, European Reglement 1935/2004/CE, DM 21/03/1973 e seguenti, Japan Ministry of Health and Welfare Notice No.370,1959, No.201,2006 and revision 2012, 3A Sanitary Standard Class II

**Reinforcement** high temperature resistant plies, stainless steel wire helix

**Cover** smooth, silicone, translucent, heat, ageing, ozone and abrasion resistant, glossy cover

**Sterilization** refer to guidelines for cleaning and sanitizing on Tudertechnica website

**Marking** TUDERTECHNICA TUSIL BRIGHT



### TECHNICAL CHARACTERISTICS

**Temperature range** -60°C / +200°C ( -76°F / +392°F )

**Vacuum** 675 mmHg ( 26,6 inHg )

**Norm** ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
13	0,50	24	0,94	15	225	45	675	0,46	0,31	60	2,36
16	0,63	27	1,06	14	210	42	630	0,53	0,36	70	2,76
19	0,75	30	1,18	13	195	39	585	0,60	0,40	80	3,15
25	1,00	36	1,42	10	150	30	450	0,73	0,49	100	3,94
32	1,25	43	1,69	8	120	24	360	0,89	0,60	130	5,12
38	1,50	51	2,00	7	105	21	315	1,21	0,81	155	6,10
51	2,00	64	2,52	6	90	18	270	1,56	1,05	210	8,27
63,5	2,50	78,5	3,09	5	75	15	225	2,32	1,55	260	10,24
76	3,00	91	3,58	4	60	12	180	2,72	1,82	310	12,20
102	4,00	117	4,61	3	45	9	135	3,55	2,38	420	16,54

Data refer to ambient temperature (20°C); we recommend a reduction of 20% working pressure for every 100°C of temperature increase. Other diameters, wall thickness and pressure only on specific request.



## TUSIL BRIGHT/D



Delivery hose suitable for cosmetic, pharmaceutical and food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXII class VI, not cytotoxic according to ISO 10993 Section 5:2009. Meets migration test according to BfR Recommendation XV & XXI Cat. 2. Not intended for use as an implant material. Not suitable for blood or human fluids.

### DESCRIPTION

#### Tube

silicone, translucent, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA CFR 21 PART 177.2600, USP XXXII class VI requirements, European Pharmacopoeia 3.1.9 Ed. VII 2011, ISO 10993 Sections 5,10,11:2009, BfR Recommendation XV & XXI Cat. 2, European Reglement 1935/2004/CE, DM 21/03/1973 e seguenti, Japan Ministry of Health and Welfare Notice No.370,1959, No.201,2006 and revision 2012, 3A Sanitary Standard Class II

#### Reinforcement

#### Cover

high temperature resistant plies

smooth, silicone, translucent, heat, ageing, ozone and abrasion resistant, glossy cover

#### Sterilization

#### Marking

refer to guidelines for cleaning and sanitizing on Tudertechnica website

TUDERTECHNICA TUSIL BRIGHT



### TECHNICAL CHARACTERISTICS

#### Temperature range

-60°C / +200°C ( -76°F / +392°F )

#### Norm

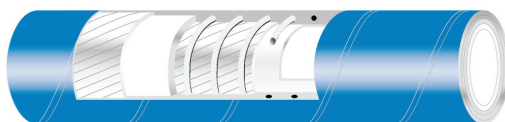
ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
10	0,39	22	0,87	-	-	16	250	48	750	0,35	0,23	-	-
13	0,50	25	1,00	-	-	15	225	45	675	0,41	0,27	-	-
16	0,63	28	1,10	-	-	14	210	42	630	0,48	0,32	-	-
19	0,75	31	1,22	-	-	13	195	39	585	0,55	0,37	-	-
25	1,00	37	1,46	-	-	10	150	30	450	0,68	0,46	-	-
32	1,25	44	1,73	-	-	8	120	24	360	0,83	0,56	-	-
38	1,50	50	1,97	-	-	7	105	21	315	0,96	0,64	-	-
51	2,00	63	2,48	-	-	6	90	18	270	1,24	0,83	-	-
63,5	2,50	76,5	3,01	-	-	5	75	15	225	1,68	1,13	-	-
76	3,00	89	3,50	-	-	4	60	12	180	1,98	1,33	-	-
102	4,00	115	4,53	-	-	3	45	9	135	2,61	1,75	-	-

Data refer to ambient temperature (20°C); we recommend a reduction of 20% working pressure for every 100°C of temperature increase. Other diameters, wall thickness and pressure only on specific request.



## TUFOOD/FAT CRUSH RESISTANT



Suction and delivery hose suitable for fatty and non fatty food products. Crush resistant. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION

**Tube**

NBR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II. RAL REGISTRATION G-73

**Reinforcement**

synthetic plies, thermoplastic wire helices

**Cover**

smooth, blue, abrasion, ageing, ozone and oil resistant, cloth finish

**Sterilization**

refer to guidelines for cleaning and sanitizing on Tudertecnica website

**Marking**

TUDERTECHNICA TUFOOD/FAT CRUSH RESISTANT

TUDERTECHNICA **TUFOOD/FAT** CRUSH RESISTANT

### TECHNICAL CHARACTERISTICS

**Temperature range**

-25°C / +80°C (-13°F / +176°F)

**Norm**

ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	54	2,13	525	20,67	10	150	30	450	1,58	1,06	170	6,69
51	2,00	67	2,64	525	20,67	10	150	30	450	2,00	1,34	240	9,44
63,5	2,50	81,5	3,21	525	20,67	10	150	30	450	2,70	1,81	310	12,20
76	3,00	94	3,70	525	20,67	10	150	30	450	3,15	2,11	380	14,96

Other diameters, wall thickness, cover colours and pressure only on specific request.  
Data refer to ambient temperature (20°C).



## TUFOOD/NATURAL CRUSH RESISTANT



TUDERTECHNICA TUFOOD/NATURAL CRUSH RESISTANT



Suction and delivery hose suitable for milk, milk by-products, wine and non fatty food products. Crush resistant. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION

#### Tube

NR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201, 2006. RAL REGISTRATION G-72

### TECHNICAL CHARACTERISTICS

Temperature range -40°C / +80°C ( -40°F / +176°F )

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	54	2,13	525	20,67	10	150	30	450	1,46	0,98	170	6,69
51	2,00	67	2,64	525	20,67	10	150	30	450	1,85	1,24	240	9,44
63,5	2,50	81,5	3,21	525	20,67	10	150	30	450	2,50	1,68	310	12,20
76	3,00	94	3,70	525	20,67	10	150	30	450	2,92	1,96	380	14,96

Other diameters, wall thickness, cover colours and pressure only on specific request. Data refer to ambient temperature (20°C).

## TUFOOD/EPDM CRUSH RESISTANT



TUDERTECHNICA TUFOOD/EPDM CRUSH RESISTANT



Suction and delivery hose suitable for a wide range of food products. Not recommended for fatty food products and oil. Crush resistant. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION

#### Tube

EPDM, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II. RAL REGISTRATION G-74

### TECHNICAL CHARACTERISTICS

Temperature range -40°C / +120°C ( -40°F / +248°F )

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	54	2,13	525	20,67	10	150	30	450	1,38	0,92	170	6,69
51	2,00	67	2,64	525	20,67	10	150	30	450	1,74	1,17	240	9,44
63,5	2,50	81,5	3,21	525	20,67	10	150	30	450	2,36	1,58	310	12,20
76	3,00	94	3,70	525	20,67	10	150	30	450	2,76	1,85	380	14,96

Other diameters, wall thickness, cover colours and pressure only on specific request. Data refer to ambient temperature (20°C).

## TUPRESTIGE CRUSH RESISTANT



TUDERTECHNICA TUPRESTIGE CRUSH RESISTANT



Premium grade low permeation suction and delivery hose suitable for a wide range of products. Recommended for wine and spirits. Crush resistant. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION

#### Tube

IIR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II

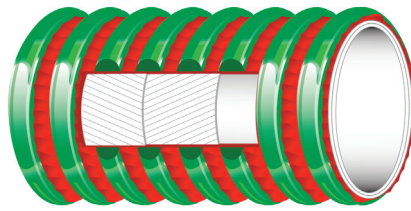
### TECHNICAL CHARACTERISTICS

Temperature range -40°C / +120°C ( -40°F / +248°F )

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	54	2,13	525	20,67	10	150	30	450	1,45	0,97	170	6,69
51	2,00	67	2,64	525	20,67	10	150	30	450	1,84	1,23	240	9,44
63,5	2,50	81,5	3,21	525	20,67	10	150	30	450	2,48	1,66	310	12,20
76	3,00	94	3,70	525	20,67	10	150	30	450	2,90	1,94	380	14,96

Other diameters, wall thickness, cover colours and pressure only on specific request. Data refer to ambient temperature (20°C).

**SPIRALTECH® NR**



Light and flexible lorry collecting hose suitable for milk, milk by-products, wine and non fatty food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

**DESCRIPTION**

**Tube**

NR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201, 2006. RAL REGISTRATION G-72

**Reinforcement Cover**

synthetic plies  
corrugated, red, abrasion, ageing, ozone and oil resistant, outer thermoplastic helix

**Sterilization**

refer to guidelines for cleaning and sanitizing on Tudertechnica website

**TECHNICAL CHARACTERISTICS**

**Temperature range**

-25°C / +80°C ( -13°F / +176°F )

**Norm**

ISO 1307 for dimensional tolerances

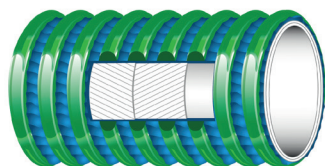
Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	-	-	675	26,6	10	150	30	450	1,21	0,81	80	3,15
51	2,00	-	-	675	26,6	10	150	30	450	1,59	1,07	100	3,94
63,5	2,50	-	-	600	23,6	10	150	30	450	1,93	1,29	130	5,12
76	3,00	-	-	600	23,6	10	150	30	450	2,49	1,67	150	5,91
102	4,00	-	-	525	20,7	10	150	30	450	3,26	2,18	200	7,87

Other diameters, wall thickness, cover colours and pressure only on specific request.  
Data refer to ambient temperature (20°C).





## SPIRALTECH® NITRILE



Light and flexible lorry collecting hose suitable for fatty and not fatty food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION Tube

NBR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II. RAL REGISTRATION G-73

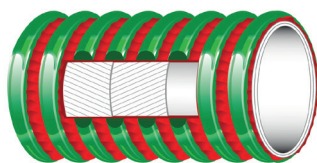
### TECHNICAL CHARACTERISTICS

Temperature range -25°C / +80°C ( -13°F / +176°F )

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	-	-	675	26,6	10	150	30	450	1,21	0,81	80	3,15
51	2,00	-	-	675	26,6	10	150	30	450	1,62	1,09	100	3,94
63,5	2,50	-	-	600	23,6	10	150	30	450	1,96	1,31	130	5,12
76	3,00	-	-	600	23,6	10	150	30	450	2,37	1,59	150	5,91
102	4,00	-	-	525	20,7	10	150	30	450	3,06	2,05	200	7,87

Other diameters, wall thickness, cover colours and pressure only on specific request. Data refer to ambient temperature (20°C).

## SPIRALTECH® EPDM



Light and flexible lorry collecting hose suitable for a wide range of food products. Not recommended for fatty food products and oil. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION Tube

EPDM, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II. RAL REGISTRATION G-74

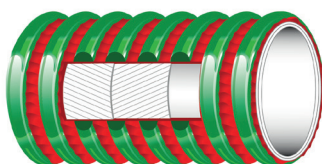
### TECHNICAL CHARACTERISTICS

Temperature range -25°C / +80°C ( -13°F / +176°F )

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	-	-	675	26,6	10	150	30	450	1,27	0,86	80	3,15
51	2,00	-	-	675	26,6	10	150	30	450	1,67	1,12	100	3,94
63,5	2,50	-	-	600	23,6	10	150	30	450	2,03	1,36	130	5,12
76	3,00	-	-	600	23,6	10	150	30	450	2,38	1,59	150	5,91
102	4,00	-	-	525	20,7	10	150	30	450	3,11	2,09	200	7,87

Other diameters, wall thickness, cover colours and pressure only on specific request. Data refer to ambient temperature (20°C).

## SPIRALTECH® BUTYL



Premium grade low permeation light and flexible lorry collecting hose suitable for a wide range of food products. Recommended for wine and spirits. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION Tube

IIR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II

### TECHNICAL CHARACTERISTICS

Temperature range -25°C / +80°C ( -13°F / +176°F )

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	-	-	675	26,6	10	150	30	450	1,23	0,82	80	3,15
51	2,00	-	-	675	26,6	10	150	30	450	1,62	1,09	100	3,94
63,5	2,50	-	-	600	23,6	10	150	30	450	1,97	1,32	130	5,12
76	3,00	-	-	600	23,6	10	150	30	450	2,57	1,72	150	5,91
102	4,00	-	-	525	20,7	10	150	30	450	3,37	2,26	200	7,87

Other diameters, wall thickness, cover colours and pressure only on specific request. Data refer to ambient temperature (20°C).

## GLIDETECH® BUTYL



Premium grade low permeation extra flexible suction and delivery hose suitable for wine and spirits. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION

**Tube** IIR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II

**Reinforcement** synthetic plies, galvanized wire helices

**Cover** wide corrugated, red, low friction material, non marking when dragged on the floor, abrasion, ozone, ageing, oil and chemical resistant, easy to clean, glossy cover

**Sterilization** refer to guidelines for cleaning and sanitizing on Tudertecnica website

**Marking** TUDERTECHNICA GLIDETECH® BUTYL

TUDERTECHNICA **GLIDETECH BUTYL**

### TECHNICAL CHARACTERISTICS

**Temperature range** -40°C / +120°C ( -40°F / +248°F )

**Vacuum** 675 mmHg ( 26,6 inHg )

**Norm** ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	-	-	10	150	30	450	0,82	0,55	70	2,76
38	1,50	-	-	10	150	30	450	1,23	0,82	80	3,15
51	2,00	-	-	10	150	30	450	1,90	1,27	100	3,94
63,5	2,50	-	-	10	150	30	450	2,30	1,54	130	5,12
76	3,00	-	-	10	150	30	450	2,90	1,94	150	5,91
102	4,00	-	-	10	150	30	450	3,78	2,53	250	9,84

Other diameters, wall thickness, cover colours and pressure only on specific request.  
Data refer to ambient temperature (20°C).



## GLIDETECH® NR



TUDERTECHNICA

**GLIDETECH NR**



Extra flexible suction and delivery hose suitable for milk, milk by-products, wine and non fatty food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION Tube

NR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201, 2006. RAL REGISTRATION G-72

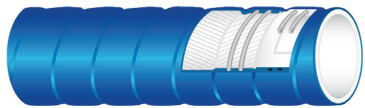
### TECHNICAL CHARACTERISTICS

Temperature range -40°C / +80°C ( -40°F / +176°F )

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	-	-	10	150	30	450	0,82	0,55	70	2,76
38	1,50	-	-	10	150	30	450	1,23	0,82	80	3,15
51	2,00	-	-	10	150	30	450	1,90	1,27	100	3,94
63,5	2,50	-	-	10	150	30	450	2,30	1,54	130	5,12
76	3,00	-	-	10	150	30	450	2,90	1,94	150	5,91
102	4,00	-	-	10	150	30	450	3,78	2,53	250	9,84

Other diameters, wall thickness, cover colours and pressure only on specific request. Data refer to ambient temperature (20°C).

## GLIDETECH® NITRILE



TUDERTECHNICA

**GLIDETECH NITRILE**



Extra flexible suction and delivery hose suitable for fatty and non fatty food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION Tube

NBR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II. RAL REGISTRATION G-73

### TECHNICAL CHARACTERISTICS

Temperature range -25°C / +80°C ( -13°F / +176°F )

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	-	-	10	150	30	450	0,81	0,54	70	2,76
38	1,50	-	-	10	150	30	450	1,23	0,82	80	3,15
51	2,00	-	-	10	150	30	450	1,90	1,27	100	3,94
63,5	2,50	-	-	10	150	30	450	2,31	1,55	130	5,12
76	3,00	-	-	10	150	30	450	2,91	1,95	150	5,91
102	4,00	-	-	10	150	30	450	3,80	2,55	250	9,84

Other diameters, wall thickness, cover colours and pressure only on specific request. Data refer to ambient temperature (20°C).

## GLIDETECH® EPDM



TUDERTECHNICA

**GLIDETECH EPDM**



Extra flexible suction and delivery hose suitable for a wide range of food products. Not recommended for fatty food products and oil. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION Tube

EPDM, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II. RAL REGISTRATION G-74

### TECHNICAL CHARACTERISTICS

Temperature range -40°C / +120°C ( -40°F / +248°F )

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	-	-	10	150	30	450	0,79	0,53	70	2,76
38	1,50	-	-	10	150	30	450	1,19	0,80	80	3,15
51	2,00	-	-	10	150	30	450	1,85	1,24	100	3,94
63,5	2,50	-	-	10	150	30	450	2,24	1,50	130	5,12
76	3,00	-	-	10	150	30	450	2,83	1,90	150	5,91
102	4,00	-	-	10	150	30	450	3,72	2,49	250	9,84

Other diameters, wall thickness, cover colours and pressure only on specific request. Data refer to ambient temperature (20°C).

## MILKFLEX™



Light and flexible lorry collecting hose suitable for milk and milk by-products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION

**Tube**

NR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201, 2006. RAL REGISTRATION G-72

**Reinforcement**

synthetic plies, galvanized wire helices

**Cover**

smooth, blue, abrasion, ageing and ozone resistant, cloth finish

**Sterilization**

refer to guidelines for cleaning and sanitizing on Tudertecnica website

**Marking**

TUDERTECHNICA MILKFLEX™



### TECHNICAL CHARACTERISTICS

**Temperature range**

-40°C / +80°C ( -40°C / +176°F )

**Vacuum**

675 mmHg ( 26,6 inHg )

**Norm**

ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	36	1,42	6	90	18	270	0,72	0,48	75	2,95
32	1,25	43	1,69	6	90	18	270	0,88	0,59	95	3,74
38	1,50	50	1,97	6	90	18	270	1,20	0,80	115	4,53
51	2,00	63	2,48	6	90	18	270	1,54	1,03	150	5,91
63,5	2,50	75,5	2,97	6	90	18	270	1,98	1,33	190	7,48
76	3,00	90	3,54	6	90	18	270	2,76	1,85	230	9,06
102	4,00	116	4,57	6	90	18	270	3,78	2,53	300	11,81

Other diameters, wall thickness, cover colours and pressure only on specific request.  
Data refer to ambient temperature (20°C).



**MILKFLEX™  
EXTRA LIGHT**



TUDERTECHNICA MILKFLEX™ EXTRA LIGHT



Very light and flexible lorry collecting hose suitable for milk and milk by-products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

**DESCRIPTION**

**Tube**

NR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201, 2006. RAL REGISTRATION G-72

**TECHNICAL CHARACTERISTICS**

**Temperature range** -40°C / +80°C ( -40°F / +176°F )

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	49	1,93	6	90	18	270	1,07	0,72	115	4,53
51	2,00	62	2,44	6	90	18	270	1,37	0,92	150	5,91
63,5	2,50	74,5	2,93	6	90	18	270	1,74	1,17	190	7,48
76	3,00	88	3,46	6	90	18	270	2,44	1,63	230	9,06

Other diameters, wall thickness, cover colours and pressure only on specific request.  
Data refer to ambient temperature (20°C).

**MILKFLEX™ PLUS**



TUDERTECHNICA MILKFLEX™ PLUS



Light and flexible lorry collecting hose suitable for milk and milk by-products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

**DESCRIPTION**

**Tube**

NR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201, 2006. RAL REGISTRATION G-72

**TECHNICAL CHARACTERISTICS**

**Temperature range** -40°C / +80°C ( -40°F / +176°F )

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	37	1,46	10	150	30	450	0,81	0,54	75	2,95
32	1,25	44	1,73	10	150	30	450	0,99	0,66	95	3,74
38	1,50	50	1,97	10	150	30	450	1,27	0,85	115	4,53
51	2,00	63	2,48	10	150	30	450	1,64	1,10	150	5,91
63,5	2,50	75,5	2,97	10	150	30	450	2,07	1,39	190	7,48
76	3,00	90	3,54	10	150	30	450	2,76	1,85	230	9,06
102	4,00	117	4,61	9	135	27	405	4,07	2,73	300	11,81

Other diameters, wall thickness, cover colours and pressure only on specific request.  
Data refer to ambient temperature (20°C).

**MILKFLEX™  
CRUSH RESISTANT**



TUDERTECHNICA MILKFLEX™ CRUSH RESISTANT



Light and flexible lorry collecting hose suitable for milk and milk by-products. Crush resistant. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

**DESCRIPTION**

**Tube**

NR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201, 2006. RAL REGISTRATION G-72.

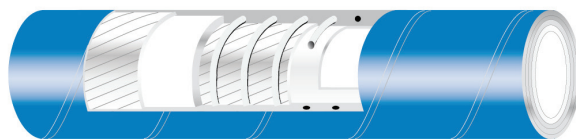
**TECHNICAL CHARACTERISTICS**

**Temperature range** -40°C / +80°C ( -40°F / +176°F )

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	52	2,05	525	20,67	6	90	18	270	1,15	0,77	130	5,12
51	2,00	65	2,56	525	20,67	6	90	18	270	1,45	0,97	185	7,28
63,5	2,50	77,5	3,05	525	20,67	6	90	18	270	1,80	1,21	240	9,45
76	3,00	92	3,62	525	20,67	6	90	18	270	2,40	1,61	300	11,81

Other diameters, wall thickness, cover colours and pressure only on specific request.  
Data refer to ambient temperature (20°C).

## MILKFLEX™ FAT



Light and flexible lorry collecting hose suitable for fatty and not fatty food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION

**Tube** NBR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II. RAL REGISTRATION G-73

**Reinforcement** synthetic plies, galvanized wire helices  
**Cover** smooth, blue, abrasion, ageing, ozone and oil resistant, cloth finish  
**Sterilization** refer to guidelines for cleaning and sanitizing on Tudertecnica website  
**Marking** TUDERTECHNICA MILKFLEX™ FAT

**TUDERTECHNICA MILKFLEX FAT**

### TECHNICAL CHARACTERISTICS

**Temperature range** -25°C / +80°C ( -13°F / +176°F )  
**Vacuum** 675 mmHg ( 26,6 inHg )  
**Norm** ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	36	1,42	6	90	18	270	0,86	0,58	75	2,95
32	1,25	43	1,69	6	90	18	270	1,06	0,71	95	3,74
38	1,50	50	1,97	6	90	18	270	1,32	0,88	115	4,53
51	2,00	63	2,48	6	90	18	270	1,71	1,15	150	5,91
63,5	2,50	75,5	2,97	6	90	18	270	2,16	1,45	190	7,48
76	3,00	90	3,54	6	90	18	270	3,14	2,10	230	9,06
102	4,00	116	4,57	6	90	18	270	4,21	2,82	300	11,81

Other diameters, wall thickness, cover colours and pressure only on specific request.  
 Data refer to ambient temperature (20°C).



## GLIDETECH® DAIRY



Extra flexible suction and delivery hose suitable for milk and milk by-products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION

#### Tube

NR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201, 2006. RAL REGISTRATION G-72.

#### Reinforcement Cover

synthetic plies, galvanized wire helices  
wide corrugated, blue, low friction material, non marking when dragged on the floor, abrasion, ageing, ozone, oil and chemical resistant, easy to clean, glossy cover

#### Sterilization Marking

refer to guidelines for cleaning and sanitizing on Tudertecnica website  
TUDERTECHNICA GLIDETECH® DAIRY



### TECHNICAL CHARACTERISTICS

#### Temperature range

-40°C / +80°C ( -40°F / +176°F )

#### Vacuum

675 mmHg ( 26,6 inHg )

#### Norm

ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	-	-	10	150	30	450	0,82	0,55	70	2,76
38	1,50	-	-	10	150	30	450	1,23	0,82	80	3,15
51	2,00	-	-	10	150	30	450	1,90	1,27	100	3,94
63,5	2,50	-	-	10	150	30	450	2,30	1,54	130	5,12
76	3,00	-	-	10	150	30	450	2,90	1,94	150	5,91
102	4,00	-	-	10	150	30	450	3,78	2,53	250	9,84

Other diameters, wall thickness, cover colours and pressure only on specific request.  
Data refer to ambient temperature (20°C).



**BREWERY/EPDM D**



Delivery hose suitable for beer and a wide range of non fatty food products with an improved resistance to higher pressure. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

**DESCRIPTION**

**Tube**

EPDM, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II. RAL REGISTRATION G-74

**Reinforcement**

synthetic plies

**Cover**

smooth, red, abrasion, ageing and ozone resistant, cloth finish

**Sterilization**

refer to guidelines for cleaning and sanitizing on Tudertechnica website

**Marking**

TUDERTECHNICA BREWERY/EPDM



**TECHNICAL CHARACTERISTICS**

**Temperature range**

-40°C / +120°C ( -40°F / +248°F )

**Norm**

ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	37	1,46	450	17,7	16	250	48	750	0,75	0,50	150	5,91
32	1,25	48	1,89	375	14,8	16	250	48	750	1,24	0,83	210	8,27
38	1,50	56	2,20	375	14,8	16	250	48	750	1,79	1,20	260	10,24
50	1,97	70	2,76	300	11,8	16	250	48	750	2,48	1,66	350	13,78
51	2,00	70	2,76	300	11,8	16	250	48	750	2,35	1,57	350	13,78
63,5	2,50	89	3,50	300	11,8	16	250	48	750	3,88	2,60	470	18,50
65	2,56	89	3,50	300	11,8	16	250	48	750	3,75	2,51	470	18,50
75	2,95	99	3,90	225	8,9	16	250	48	750	4,29	2,87	580	22,83
76	3,00	99	3,90	225	8,9	16	250	48	750	4,10	2,75	580	22,83
100	3,94	130	5,12	150	5,9	16	250	48	750	7,06	4,73	800	31,50
102	4,00	130	5,12	150	5,9	16	250	48	750	6,57	4,40	800	31,50

Other diameters, wall thickness, cover colours and pressure only on specific request.  
Data refer to ambient temperature (20°C).





## BREWERY/EPDM



Suction and delivery hose suitable for beer and a wide range of non fatty food products with an improved resistance to higher pressure. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION

#### Tube

EPDM, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II. RAL REGISTRATION G-74

#### Reinforcement

synthetic plies, galvanized wire helices

#### Cover

smooth, red, abrasion, ageing and ozone resistant, cloth finish

#### Sterilization

refer to guidelines for cleaning and sanitizing on Tudertecnica website

#### Marking

TUDERTECHNICA BREWERY/EPDM



### TECHNICAL CHARACTERISTICS

#### Temperature range

-40°C / +120°C ( -40°F / +248°F )

#### Vacuum

675 mmHg ( 26,6 inHg )

#### Norm

ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	53	2,09	16	250	48	750	1,48	0,99	155	6,10
50	1,97	66	2,60	16	250	48	750	2,05	1,37	215	8,46
51	2,00	66	2,60	16	250	48	750	1,92	1,29	215	8,46
63,5	2,50	81	3,19	16	250	48	750	2,98	2,00	275	10,83
65	2,56	81	3,19	16	250	48	750	2,84	1,90	275	10,83
75	2,95	94	3,70	16	250	48	750	4,06	2,72	330	12,99
76	3,00	94	3,70	16	250	48	750	3,87	2,59	330	12,99
100	3,94	120	4,72	16	250	48	750	5,38	3,60	450	17,72
102	4,00	120	4,72	16	250	48	750	5,19	3,48	450	17,72

Other diameters, wall thickness, cover colours and pressure only on specific request.  
Data refer to ambient temperature (20°C).



**BREWERY/BUTYL D**



Premium grade low permeation delivery hose suitable for beer and a wide range of non fatty food products with an improved resistance to higher pressure. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

**DESCRIPTION**

**Tube**

IIR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II

**Reinforcement**

synthetic plies

**Cover**

smooth, red, abrasion, ageing and ozone resistant, cloth finish

**Sterilization**

refer to guidelines for cleaning and sanitizing on Tudertecnica website

**Marking**

TUDERTECHNICA BREWERY/BUTYL



**TECHNICAL CHARACTERISTICS**

**Temperature range**

-40°C / +120°C ( -40°F / +248°F )

**Norm**

ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	37	1,46	450	17,7	16	250	48	750	0,76	0,51	150	5,91
32	1,25	48	1,89	375	14,8	16	250	48	750	1,27	0,85	210	8,27
38	1,50	56	2,20	375	14,8	16	250	48	750	1,83	1,23	260	10,24
50	1,97	70	2,76	300	11,8	16	250	48	750	2,53	1,70	350	13,78
51	2,00	70	2,76	300	11,8	16	250	48	750	2,41	1,61	350	13,78
63,5	2,50	89	3,50	300	11,8	16	250	48	750	3,95	2,65	470	18,50
65	2,56	89	3,50	300	11,8	16	250	48	750	3,82	2,56	470	18,50
75	2,95	99	3,90	225	8,9	16	250	48	750	4,37	2,93	580	22,83
76	3,00	99	3,90	225	8,9	16	250	48	750	4,18	2,80	580	22,83
100	3,94	130	5,12	150	5,9	16	250	48	750	7,17	4,80	800	31,50
102	4,00	130	5,12	150	5,9	16	250	48	750	6,68	4,48	800	31,50

Other diameters, wall thickness, cover colours and pressure only on specific request. Data refer to ambient temperature (20°C).



## BREWERY/BUTYL



Premium grade low permeation suction and delivery hose suitable for beer and a wide range of non fatty food products with an improved resistance to higher pressure. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION

#### Tube

IIR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II

#### Reinforcement

synthetic plies, galvanized wire helices

#### Cover

smooth, red, abrasion, ageing and ozone resistant, cloth finish

#### Sterilization

refer to guidelines for cleaning and sanitizing on Tudertecnica website

#### Marking

TUDERTECHNICA BREWERY/BUTYL

TUDERTECHNICA **BREWERY/BUTYL**

### TECHNICAL CHARACTERISTICS

#### Temperature range

-40°C / +120°C ( -40°F / +248°F )

#### Vacuum

675 mmHg ( 26,6 inHg )

#### Norm

ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	53	2,09	16	250	48	750	1,51	1,01	155	6,10
50	1,97	66	2,60	16	250	48	750	2,09	1,40	215	8,46
51	2,00	66	2,60	16	250	48	750	1,96	1,31	215	8,46
63,5	2,50	81	3,19	16	250	48	750	3,02	2,02	275	10,83
65	2,56	81	3,19	16	250	48	750	2,88	1,93	275	10,83
75	2,95	94	3,70	16	250	48	750	4,11	2,75	330	12,99
76	3,00	94	3,70	16	250	48	750	3,92	2,63	330	12,99
100	3,94	120	4,72	16	250	48	750	5,45	3,65	450	17,72
102	4,00	120	4,72	16	250	48	750	5,26	3,52	450	17,72

Other diameters, wall thickness, cover colours and pressure only on specific request. Data refer to ambient temperature (20°C).



**BREWERY/UPE**



Suction and delivery hose suitable for beer, alcohol concentration up to 96% and a wide range of food products with an improved resistance to higher pressure. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

**DESCRIPTION**

**Tube** UPE, translucent, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006

**Reinforcement** synthetic plies, galvanized wire helices

**Cover** smooth, blue, abrasion, ageing and ozone resistant, cloth finish

**Sterilization** refer to guidelines for cleaning and sanitizing on Tudertecnica website

**Marking** TUDERTECHNICA BREWERY/UPE

**TUDERTECHNICA BREWERY/UPE**

**TECHNICAL CHARACTERISTICS**

**Temperature range** -35°C / +100°C ( -31°F / +212°F )

**Vacuum** 675 mmHg ( 26,6 inHg )

**Norm** ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	51	2,00	16	250	48	750	1,34	0,90	240	9,45
50	1,97	64	2,52	16	250	48	750	1,84	1,23	330	12,99
51	2,00	64	2,52	16	250	48	750	1,72	1,15	330	12,99
63,5	2,50	81	3,19	16	250	48	750	3,06	2,05	415	16,34
65	2,56	81	3,19	16	250	48	750	2,92	1,96	415	16,34
75	2,95	93	3,66	16	250	48	750	3,70	2,48	500	19,69
76	3,00	93	3,66	16	250	48	750	3,50	2,35	500	19,69
100	3,94	119	4,69	16	250	48	750	5,12	3,43	675	26,57
102	4,00	119	4,69	16	250	48	750	4,78	3,20	675	26,57

Other diameters, wall thickness, cover colours and pressure only on specific request.  
Data refer to ambient temperature (20°C).



## GLIDETECH® BREWERY HD



Premium grade low permeation extra flexible suction and delivery hose suitable for beer and a wide range of non fatty food products with an improved resistance to higher pressure. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION

#### Tube

IIR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006, 3A Sanitary Standard Class II

#### Reinforcement Cover

synthetic plies, galvanized wire helices  
wide corrugated, red, low friction material, non marking when dragged on the floor, abrasion, ozone, ageing, oil and chemical resistant, easy to clean refer to guidelines for cleaning and sanitizing on Tudertecnica website

#### Sterilization Marking

TUDERTECHNICA GLIDETECH® BREWERY HD



### TECHNICAL CHARACTERISTICS

#### Temperature range

-40°C / +120°C ( -40°F / +248°F )

#### Vacuum

675 mmHg ( 26,6 inHg )

#### Norm

ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	-	-	16	250	60	900	0,91	0,61	105	4,13
38	1,50	-	-	16	250	60	900	1,38	0,92	120	4,72
51	2,00	-	-	16	250	60	900	2,21	1,48	150	5,91
63,5	2,50	-	-	16	250	60	900	2,79	1,87	195	7,68
76	3,00	-	-	16	250	60	900	3,51	2,35	225	8,86
102	4,00	-	-	16	250	60	900	4,57	3,06	375	14,76

Other diameters, wall thickness, cover colours and pressure only on specific request.  
Data refer to ambient temperature (20°C).



## GLIDETECH® VINEYARD



Extra flexible suction and delivery hose suitable for wine and vinification by-products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION

**Tube**

NR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201, 2006. RAL REGISTRATION G-72

**Reinforcement Cover**

synthetic plies, galvanized wire helices  
wide corrugated, red, low friction material, non marking when dragged on the floor, abrasion, ageing, ozone, oil and chemical resistant, easy to clean, glossy cover

**Sterilization Marking**

refer to guidelines for cleaning and sanitizing on Tudertecnica website  
TUDERTECHNICA GLIDETECH® VINEYARD

TUDERTECHNICA  **GLIDETECH® VINEYARD**

### TECHNICAL CHARACTERISTICS

**Temperature range**

-40°C / +80°C ( -40°F / +176°F )

**Vacuum**

675 mmHg ( 26,6 inHg )

**Norm**

ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	-	-	10	150	30	450	0,82	0,55	70	2,76
38	1,50	-	-	10	150	30	450	1,23	0,82	80	3,15
51	2,00	-	-	10	150	30	450	1,90	1,27	100	3,94
63,5	2,50	-	-	10	150	30	450	2,30	1,54	130	5,12
76	3,00	-	-	10	150	30	450	2,90	1,94	150	5,91
102	4,00	-	-	10	150	30	450	3,78	2,53	250	9,84

Other diameters, wall thickness, cover colours and pressure only on specific request.  
Data refer to ambient temperature (20°C).



## GLIDETECH® VINEYARD HD



Extra flexible suction and delivery hose suitable for wine and vinification by-products with an improved resistance to higher pressure. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION

#### Tube

NR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201, 2006. RAL REGISTRATION G-72

#### Reinforcement Cover

synthetic plies, galvanized wire helices  
wide corrugated, red, low friction material, non marking when dragged on the floor, abrasion, ageing, ozone, oil and chemical resistant, easy to clean

#### Sterilization Marking

refer to guidelines for cleaning and sanitizing on Tudertecnica website  
TUDERTECHNICA GLIDETECH® VINEYARD HD

TUDERTECHNICA **GLIDETECH VINEYARD HD**

### TECHNICAL CHARACTERISTICS

#### Temperature range

-40°C / +80°C ( -40°F / +176°F )

#### Vacuum

675 mmHg ( 26,6 inHg )

#### Norm

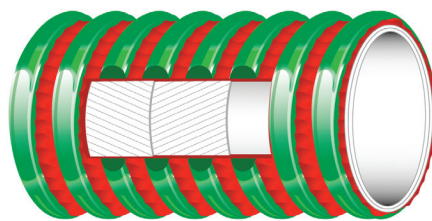
ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	-	-	16	250	60	900	0,91	0,61	105	4,13
38	1,50	-	-	16	250	60	900	1,41	0,94	120	4,72
51	2,00	-	-	16	250	60	900	2,24	1,50	150	5,91
63,5	2,50	-	-	16	250	60	900	2,82	1,89	195	7,68
76	3,00	-	-	16	250	60	900	3,55	2,38	225	8,86
102	4,00	-	-	16	250	60	900	4,44	2,97	375	14,76

Other diameters, wall thickness, cover colours and pressure only on specific request.  
Data refer to ambient temperature (20°C).



## SPIRALTECH® VINEYARD



Light and flexible lorry collecting hose suitable for wine and vinification by-products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

## DESCRIPTION

## Tube

NR, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 2, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201, 2006. RAL REGISTRATION G-72

Reinforcement  
Cover

synthetic plies  
corrugated, red, abrasion, ageing, ozone and oil resistant, outer thermoplastic helix

## Sterilization

refer to guidelines for cleaning and sanitizing on Tudertecnica website

## TECHNICAL CHARACTERISTICS

## Temperature range

-25°C / +80°C ( -13°F / +176°F )

## Norm

ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	-	-	675	26,6	10	150	30	450	1,21	0,81	80	3,15
51	2,00	-	-	675	26,6	10	150	30	450	1,59	1,07	100	3,94
63,5	2,50	-	-	600	23,6	10	150	30	450	1,93	1,29	130	5,12
76	3,00	-	-	600	23,6	10	150	30	450	2,49	1,67	150	5,91
102	4,00	-	-	525	20,7	10	150	30	450	3,26	2,18	200	7,87

Other diameters, wall thickness, cover colours and pressure only on specific request.  
Data refer to ambient temperature (20°C).





## GLIDETECH® DISTILLERY



Extra flexible suction and delivery hose suitable for distilled and distillation by-products with alcohol concentration up to 96%. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION

**Tube** UPE, translucent, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201, 2006

**Reinforcement Cover** synthetic plies, galvanized wire helices wide corrugated, green, low friction material, non marking when dragged on the floor, abrasion, ageing, ozone, oil and chemical resistant, easy to clean, glossy cover

**Sterilization Marking** refer to guidelines for cleaning and sanitizing on Tudertecnica website TUDERTECHNICA GLIDETECH® DISTILLERY

TUDERTECHNICA **GLIDETECH® DISTILLERY**

### TECHNICAL CHARACTERISTICS

**Temperature range** -35°C / +100°C ( -31°F / +212°F )  
**Vacuum** 675 mmHg ( 26,6 inHg )  
**Norm** ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	-	-	10	150	30	450	0,80	0,54	100	3,94
38	1,50	-	-	10	150	30	450	1,14	0,76	150	5,91
51	2,00	-	-	10	150	30	450	1,81	1,21	200	7,87
63,5	2,50	-	-	10	150	30	450	2,19	1,47	260	10,24
76	3,00	-	-	10	150	30	450	2,81	1,88	350	13,78
102	4,00	-	-	10	150	30	450	3,67	2,46	500	19,69

Other diameters, wall thickness, cover colours and pressure only on specific request. Data refer to ambient temperature (20°C).



**TUALCOMASTER**



Light and flexible suction and delivery hose suitable for alcohol concentration up to 96%. Can be used for fatty and non fatty food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

**DESCRIPTION**

**Tube**

UPE, translucent, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006

**Reinforcement**

synthetic plies, galvanized wire helices

**Cover**

smooth, blue, abrasion, ageing and ozone resistant, cloth finish

**Sterilization**

refer to guidelines for cleaning and sanitizing on Tudertecnica website

**Marking**

TUDERTECHNICA TUALCOMASTER



**TECHNICAL CHARACTERISTICS**

**Temperature range**

-35°C / +100°C ( -31°F / +212°F )

**Vacuum**

675 mmHg ( 26,6 inHg )

**Norm**

ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	29	1,14	6	90	18	270	0,61	0,41	60	2,36
25	1,00	35	1,38	6	90	18	270	0,76	0,51	85	3,35
32	1,25	43	1,69	6	90	18	270	0,98	0,66	115	4,53
38	1,50	49	1,93	6	90	18	270	1,14	0,76	150	5,91
51	2,00	62	2,44	6	90	18	270	1,52	1,02	210	8,27
63,5	2,50	76,5	3,01	6	90	18	270	2,29	1,53	265	10,43
76	3,00	89	3,50	6	90	18	270	2,85	1,91	320	12,60
102	4,00	115	4,53	6	90	18	270	3,74	2,51	430	16,93

Other diameters, wall thickness, cover colours and pressure only on specific request.  
Data refer to ambient temperature (20°C).



## DRYFOOD ANTISTATIC D



Delivery hose suitable for powdery and granular dry food products.

### DESCRIPTION

**Tube** NBR, white, antistatic ( $R < 10^8 \Omega/m$ ). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 4

**Reinforcement** synthetic plies, on request a/s copper wires to discharge static electricity  
**Cover** smooth, black, conductive, abrasion, ageing and ozone resistant, cloth finish

**Sterilization** refer to guidelines for cleaning and sanitizing on Tudertechnica website  
**Marking** TUDERTECHNICA DRYFOOD ANTISTATIC



### TECHNICAL CHARACTERISTICS

**Temperature range** -25°C / +80°C ( -13°F / +176°F )  
**Norm** ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
51	2,00	66	2,60	6	90	18	270	1,82	1,22	-	-
76	3,00	94	3,70	6	90	18	270	3,22	2,16	-	-
102	4,00	124	4,88	6	90	18	270	5,06	3,39	-	-
127	5,00	151	5,94	6	90	18	270	7,13	4,78	-	-
152	6,00	176	6,93	6	90	18	270	8,43	5,65	-	-

Other diameters, wall thickness and pressure only on specific request.  
 Data refer to ambient temperature (20°C).



**DRYFOOD ANTISTATIC**



Suction and delivery hose suitable for powdery and granular dry food products.

**DESCRIPTION**

- Tube** NBR, white, antistatic ( $R < 10^8 \Omega/m$ ). Meets FDA 21 CFR 177.2600, BFR RECOMMENDATION XXI CAT 4
- Reinforcement** synthetic plies, galvanized wire helices, on request a/s copper wires to discharge static electricity
- Cover** smooth, black, conductive, abrasion, ageing and ozone resistant, cloth finish
- Sterilization** refer to guidelines for cleaning and sanitizing on Tudertechnica website
- Marking** TUDERTECHNICA DRYFOOD ANTISTATIC



**TECHNICAL CHARACTERISTICS**

- Temperature range** -25°C / +80°C ( -13°F / +176°F )
- Vacuum** 675 mmHg ( 26,6 inHg )
- Norm** ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
51	2,00	66	2,60	6	90	18	270	1,93	1,29	300	11,81
76	3,00	92	3,62	6	90	18	270	3,25	2,18	450	17,72
102	4,00	118	4,65	6	90	18	270	4,47	2,99	600	23,62
127	5,00	145	5,71	6	90	18	270	5,80	3,89	750	29,53
152	6,00	171	6,73	6	90	18	270	7,59	5,09	950	37,40

Other diameters, wall thickness and pressure only on specific request.  
Data refer to ambient temperature (20°C).



## TUSILO/PU FORM



Suction and delivery hose suitable for powdery and granular dry food products.

### DESCRIPTION

- Tube** polyurethane, translucent. Meets FDA 21 CFR 177.2600
- Reinforcement** synthetic plies, galvanized wire helices, a/s copper wires to discharge static electricity
- Cover** wide corrugated, green, abrasion, ageing and ozone resistant, cloth finish
- Sterilization\*** Citric acid max 5%, ambient temperature (20°C)  
Caustic soda max 2%, ambient temperature (20°C)
- Marking** TUDERTECHNICA TUSILO/PU FORM



### TECHNICAL CHARACTERISTICS

- Temperature range** -30°C / +100°C ( -22°F / +212°F )
- Vacuum** 675 mmHg ( 26,6 inHg )
- Norm** ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	-	-	5	75	15	225	0,83	0,56	75	2,95
38	1,50	-	-	5	75	15	225	1,36	0,91	130	5,12
51	2,00	-	-	5	75	15	225	2,07	1,39	185	7,28
63,5	2,50	-	-	5	75	15	225	2,51	1,68	240	9,45
76	3,00	-	-	5	75	15	225	3,22	2,16	300	11,81
102	4,00	-	-	5	75	15	225	4,49	3,01	410	16,14

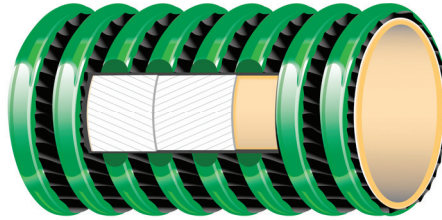
Other diameters, wall thickness, cover colours and pressure only on specific request.

Data refer to ambient temperature (20°C).

\* the service life of the hose is directly dependent on frequency and time of sterilization



**SPIRALTECH® PU**



Light and flexible lorry collecting hose suitable for powdery and granular dry food products.

**DESCRIPTION**

- Tube** polyurethane, translucent. Meets FDA 21 CFR 177.2600
- Reinforcement** synthetic plies, a/s copper wires to discharge static electricity
- Cover** corrugated, black, abrasion, ageing, ozone and oil resistant, outer thermoplastic helix
- Sterilization\*** Citric acid max 5%, ambient temperature (20°C)  
Caustic soda max 2%, ambient temperature (20°C)

**TECHNICAL CHARACTERISTICS**

- Temperature range** -25°C / +80°C ( -13°F / +176°F )
- Norm** ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	-	-	675	26,6	10	150	30	450	1,39	0,93	90	3,54
51	2,00	-	-	675	26,6	10	150	30	450	1,81	1,21	125	4,92
63,5	2,50	-	-	600	23,6	10	150	30	450	2,20	1,47	160	6,30
76	3,00	-	-	600	23,6	10	150	30	450	2,58	1,73	190	7,48
102	4,00	-	-	525	20,7	10	150	30	450	3,37	2,26	250	9,84

Other diameters, wall thickness, cover colours and pressure only on specific request.  
Data refer to ambient temperature (20°C).

\* the service life of the hose is directly dependent on frequency and time of sterilization







## TUPETROL MASTER



Suction and delivery hose designed according to EN 12115 standards for oil and petrol, aromatic content up to 50%. Tested and certified hose by INERIS for use in Atex area (Ex-Zone).

### DESCRIPTION

<b>Tube</b>	NBR 1, black, conductive
<b>Reinforcement</b>	synthetic plies, a/s copper wire to discharge static electricity, galvanized wire helices
<b>Cover</b>	smooth, CR, black, conductive, abrasion, ageing, ozone and oil resistant, cloth finish
<b>Marking</b>	yellow tape TUDERTECHNICA TUPETROL MASTER

**TUDERTECHNICA** **TUPETROL MASTER**

embossed according to norm EN 12115  
TUDERTECHNICA NBR1 EN12115:2011 DN SD PN 16 BAR Ω/T Q/Y

### TECHNICAL CHARACTERISTICS

<b>Temperature range</b>	-30°C / +100°C ( -22°F / +212°F )
<b>Vacuum</b>	675 mmHg ( 26,6 inHg )
<b>Electrical properties</b>	type Ω/T according to norm EN 12115 (R<10 <sup>6</sup> Ω, R<10 <sup>9</sup> Ω through the hose wall)
<b>Norm</b>	EN12115 TRbF 131/2

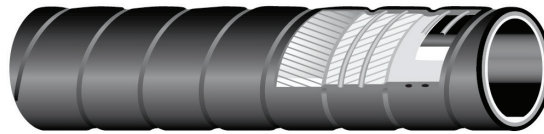
Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	31	1,22	16	250	64	1000	0,69	0,46	65	2,56
25	1,00	37	1,46	16	250	64	1000	0,85	0,57	90	3,54
32	1,25	44	1,73	16	250	64	1000	1,06	0,71	120	4,72
38	1,50	51	2,00	16	250	64	1000	1,42	0,95	155	6,10
50	1,97	66	2,60	16	250	64	1000	2,19	1,47	215	8,46
51	2,00	67	2,64	16	250	64	1000	2,22	1,49	215	8,46
63,5	2,50	79,5	3,13	16	250	64	1000	3,05	2,04	275	10,83
75	2,95	91	3,58	16	250	64	1000	3,54	2,37	330	12,99
76	3,00	92	3,62	16	250	64	1000	3,58	2,40	330	12,99
100	3,94	116	4,57	16	250	64	1000	4,58	3,07	450	17,72
102	4,00	118	4,65	16	250	64	1000	4,64	3,11	450	17,72

Data refer to ambient temperature (20°C)





## TUWAGON MASTER



Suction and delivery hose designed according to EN 12115 standards for oil and petrol, aromatic content up to 50%. Tested and certified hose by INERIS for use in Atex area (Ex-Zone).

### DESCRIPTION

- Tube** NBR 1, black, conductive
- Reinforcement** synthetic plies, a/s copper wire to discharge static electricity, galvanized wire helices.
- Cover** wide corrugated, CR, black, conductive, abrasion, ageing, ozone and oil resistant, cloth finish
- Marking** yellow tape TUDERTECHNICA TUWAGON MASTER



embossed according to norm EN 12115  
TUDERTECHNICA NBR1 EN12115:2011 DN SD PN 10 BAR Ω/T Q/Y

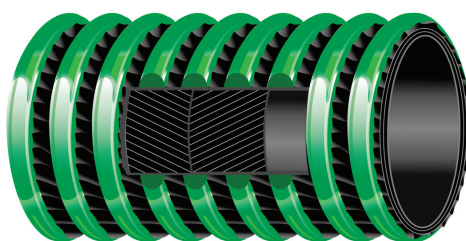
### TECHNICAL CHARACTERISTICS

- Temperature range** -30°C / +100°C ( -22°F / +212°F )
- Vacuum** 675 mmHg ( 26,6 inHg )
- Electrical properties** Type Ω/T according to norm EN 12115 (R<10<sup>6</sup> Ω, R<10<sup>9</sup> Ω through the hose wall)
- Norm** EN12115  
TRbF 131/2

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
32	1,25	44	1,73	10	150	40	600	1,18	0,79	100	3,94
38	1,50	51	2,00	10	150	40	600	1,39	0,93	125	4,92
50	1,97	66	2,60	10	150	40	600	2,10	1,41	180	7,09
51	2,00	67	2,64	10	150	40	600	2,13	1,43	180	7,09
63,5	2,50	79,5	3,13	10	150	40	600	2,71	1,82	230	9,06
75	2,95	91	3,58	10	150	40	600	3,18	2,13	280	11,02
76	3,00	92	3,62	10	150	40	600	3,22	2,16	280	11,02
100	3,94	116	4,57	10	150	40	600	4,41	2,95	400	15,75
102	4,00	118	4,65	10	150	40	600	4,46	2,99	400	15,75

Data refer to ambient temperature (20°C)

## SPIRALTECH® FUEL



Light and flexible lorry collecting hose suitable for oil and petrol, aromatic content up to 50%.

### DESCRIPTION

<b>Tube</b>	NBR, black, conductive
<b>Reinforcement</b>	synthetic plies, a/s copper wire to discharge static electricity
<b>Cover</b>	corrugated, black, abrasion, ageing, ozone and oil resistant, outer thermoplastic helix

### TECHNICAL CHARACTERISTICS

<b>Temperature range</b>	-25°C / +80°C ( -13°F / +176°F )
<b>Norm</b>	ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	-	-	675	26,6	10	150	30	450	1,17	0,78	80	3,15
51	2,00	-	-	675	26,6	10	150	30	450	1,57	1,05	100	3,94
63,5	2,50	-	-	600	23,6	10	150	30	450	1,90	1,27	130	5,12
76	3,00	-	-	600	23,6	10	150	30	450	2,30	1,54	150	5,91
102	4,00	-	-	525	20,7	10	150	30	450	2,97	1,99	200	7,87

Other diameters, wall thickness and pressure only on specific request.  
Data refer to ambient temperature (20°C).

## TUCHEM EPDM



Suction and delivery hose designed according to EN 12115 standards for chemical products. Tested and certified hose by INERIS for use in Atex area (Ex-Zone).

### DESCRIPTION

- Tube** EPDM, black, conductive
- Reinforcement** textile plies, a/s copper wire to discharge static electricity, galvanized wire helices
- Cover** smooth, EPDM, black, conductive, abrasion, ageing and ozone resistant, cloth finish
- Marking** lilac tape  
TUDERTECHNICA TUCHEM EPDM



embossed according to norm EN 12115  
TUDERTECHNICA EPDM EN12115:2011 DN SD PN 16 BAR Ω/T Q/Y

### TECHNICAL CHARACTERISTICS

- Temperature range** -40°C / +120°C ( -40°F / +248°F )
- Vacuum** 675 mmHg ( 26,6 inHg )
- Electrical properties** type Ω/T according to norm EN 12115 (R<10<sup>6</sup> Ω, R<10<sup>9</sup> Ω through the hose wall)
- Norm** EN12115  
TRbF 131/2

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	31	1,22	16	250	64	1000	0,66	0,44	65	2,56
25	1,00	37	1,46	16	250	64	1000	0,81	0,54	90	3,54
32	1,25	44	1,73	16	250	64	1000	0,99	0,66	120	4,72
38	1,50	51	2,00	16	250	64	1000	1,30	0,87	155	6,10
50	1,97	66	2,60	16	250	64	1000	2,13	1,43	215	8,46
51	2,00	67	2,64	16	250	64	1000	2,16	1,45	215	8,46
63,5	2,50	79,5	3,13	16	250	64	1000	2,86	1,92	275	10,83
75	2,95	91	3,58	16	250	64	1000	3,41	2,28	330	12,99
76	3,00	92	3,62	16	250	64	1000	3,45	2,31	330	12,99
100	3,94	116	4,57	16	250	64	1000	4,41	2,95	450	17,72
102	4,00	118	4,65	16	250	64	1000	4,46	2,99	450	17,72


Data refer to ambient temperature (20°C).

## TUCHEM VITON®



Suction and delivery hose designed according to EN 12115 standards for hot oils, chemical and petro-chemical products.

### DESCRIPTION

- Tube** Viton®, black
- Reinforcement** synthetic plies, a/s copper wire to discharge static electricity, galvanized wire helices
- Cover** smooth, CR, black, conductive, abrasion, ageing, ozone and oil resistant, cloth finish
- Marking** green/white tape  
TUDERTECHNICA TUCHEM VITON®  
  
embossed according to norm EN 12115  
TUDERTECHNICA FKM EN12115:2011 DN SD PN 16 BAR Ω Q/Y

### TECHNICAL CHARACTERISTICS

- Temperature range** -25°C / +120°C ( -13°F / +248°F ) The operating temperature of the hose is directly dependent upon the specific fluid been conveyed and the length of time the fluid is in contact with the hose
- Vacuum** 675 mmHg ( 26,6 inHg )
- Electrical properties** type Ω according to norm EN 12115 (R<10<sup>6</sup> Ω)
- Norm** EN12115  
TRbF 131/2

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	31	1,22	16	250	64	1000	0,81	0,54	125	4,92
25	1,00	37	1,46	16	250	64	1000	1,01	0,68	150	5,91
32	1,25	44	1,73	16	250	64	1000	1,19	0,80	175	6,89
38	1,50	51	2,00	16	250	64	1000	1,48	0,99	225	8,86
50	1,97	66	2,60	16	250	64	1000	2,30	1,54	275	10,83
51	2,00	67	2,64	16	250	64	1000	2,33	1,56	275	10,83
63,5	2,50	79,5	3,13	16	250	64	1000	3,32	2,22	350	13,78
75	2,95	91	3,58	16	250	64	1000	3,83	2,57	400	15,75
76	3,00	92	3,62	16	250	64	1000	3,87	2,59	400	15,75
100	3,94	116	4,57	16	250	64	1000	5,01	3,36	550	21,65
102	4,00	118	4,65	16	250	64	1000	5,05	3,38	550	21,65

Data refer to ambient temperature (20°C).

## TUCHEM UPE



Suction and delivery hose designed according to EN 12115 standards for chemical products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION

#### Tube

UPE, translucent. Phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006

#### Reinforcement

textile plies, a/s copper wire to discharge static electricity, galvanized wire helices

#### Cover

smooth, EPDM, black, conductive, abrasion, ageing and ozone resistant, cloth finish

#### Sterilization Marking

refer to guidelines for cleaning and sanitizing on Tudertecnica website  
blue/white tape

TUDERTECHNICA TUCHEM UPE



embossed according to norm EN 12115

TUDERTECHNICA UHMWPE EN12115:2011 DN SD PN 16 BAR Ω Q/Y

### TECHNICAL CHARACTERISTICS

#### Temperature range

-35°C / +100°C ( -31°F / +212°F )

#### Vacuum

675 mmHg ( 26,6 inHg )

#### Electrical properties

type Ω according to norm EN 12115 (R<10<sup>6</sup> Ω)

#### Norm

EN12115

TRbF 131/2

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	31	1,22	16	250	64	1000	0,75	0,50	115	4,53
25	1,00	37	1,46	16	250	64	1000	0,92	0,62	155	6,10
32	1,25	44	1,73	16	250	64	1000	1,10	0,74	200	7,87
38	1,50	51	2,00	16	250	64	1000	1,39	0,93	240	9,45
50	1,97	66	2,60	16	250	64	1000	2,30	1,54	330	12,99
51	2,00	67	2,64	16	250	64	1000	2,33	1,56	330	12,99
63,5	2,50	79,5	3,13	16	250	64	1000	3,09	2,07	415	16,34
75	2,95	91	3,58	16	250	64	1000	3,58	2,40	500	19,69
76	3,00	92	3,62	16	250	64	1000	3,62	2,42	500	19,69
100	3,94	116	4,57	16	250	64	1000	4,63	3,10	675	26,57
102	4,00	118	4,65	16	250	64	1000	4,67	3,13	675	26,57

Data refer to ambient temperature (20°C).



## TUCHEM UPE FULL CONDUCTIVE



Suction and delivery hose designed according to EN 12115 standards for chemical products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested and certified hose by INERIS for use in Atex area (Ex-Zone).

### DESCRIPTION

**Tube** UPE, black, conductive, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE

**Reinforcement** textile plies, a/s copper wire to discharge static electricity, galvanized wire helices

**Cover** smooth, EPDM, black, conductive, abrasion, ageing and ozone resistant, cloth finish

**Sterilization** refer to guidelines for cleaning and sanitizing on Tudertechnica website

**Marking** blue/white tape  
TUDERTECHNICA TUCHEM UPE FULL CONDUCTIVE



embossed according to norm EN 12115

TUDERTECHNICA UHMWPE EN12115:2011 DN SD PN 16 BAR Ω/T Q/Y

### TECHNICAL CHARACTERISTICS

**Temperature range** -35°C / +100°C ( -31°F / +212°F )

**Vacuum** 675 mmHg ( 26,6 inHg )

**Electrical properties** type Ω/T according to norm EN 12115 (R<10<sup>6</sup> Ω, R<10<sup>9</sup> Ω through the hose wall)

**Norm** EN12115  
TRbF 131/2

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	31	1,22	16	250	64	1000	0,75	0,50	115	4,53
25	1,00	37	1,46	16	250	64	1000	0,92	0,62	155	6,10
32	1,25	44	1,73	16	250	64	1000	1,10	0,74	200	7,87
38	1,50	51	2,00	16	250	64	1000	1,39	0,93	240	9,45
50	1,97	66	2,60	16	250	64	1000	2,30	1,54	330	12,99
51	2,00	67	2,64	16	250	64	1000	2,33	1,56	330	12,99
63,5	2,50	79,5	3,13	16	250	64	1000	3,09	2,07	415	16,34
75	2,95	91	3,58	16	250	64	1000	3,58	2,40	500	19,69
76	3,00	92	3,62	16	250	64	1000	3,62	2,42	500	19,69
100	3,94	116	4,57	16	250	64	1000	4,63	3,10	675	26,57
102	4,00	118	4,65	16	250	64	1000	4,67	3,13	675	26,57

Data refer to ambient temperature (20°C).



## TUCHEM UPE CHIPS FULL CONDUCTIVE



Suction and delivery hose designed according to EN 12115 standards for chemical products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION

**Tube** UPE, white with conductive chips, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE

**Reinforcement** textile plies, a/s wire to discharge static electricity, galvanized wire helices

**Cover** smooth, EPDM, black, conductive, abrasion, ageing and ozone resistant, cloth finish

**Sterilization** refer to guidelines for cleaning and sanitizing on Tudertecnica website

**Marking** blue/white tape

TUDERTECHNICA TUCHEM UPE CHIPS FULL CONDUCTIVE

TUDERTECHNICA TUCHEM UPE

embossed according to norm EN 12115

TUDERTECHNICA UHMWPE EN12115:2011 DN SD PN 16 BAR Ω/T Q/Y

### TECHNICAL CHARACTERISTICS

**Temperature range** -35°C / +100°C ( -31°F / +212°F )

**Vacuum** 675 mmHg ( 26,6 inHg )

**Electrical properties** type Ω/T according to norm EN 12115 (R<10<sup>6</sup> Ω, R<10<sup>9</sup> Ω through the hose wall)

**Norm** EN12115  
TRbF 131/2

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	31	1,22	16	250	64	1000	0,75	0,50	115	4,53
25	1,00	37	1,46	16	250	64	1000	0,92	0,62	155	6,10
32	1,25	44	1,73	16	250	64	1000	1,10	0,74	200	7,87
38	1,50	51	2,00	16	250	64	1000	1,39	0,93	240	9,45
50	1,97	66	2,60	16	250	64	1000	2,30	1,54	330	12,99
51	2,00	67	2,64	16	250	64	1000	2,33	1,56	330	12,99
63,5	2,50	79,5	3,13	16	250	64	1000	3,09	2,07	415	16,34
75	2,95	91	3,58	16	250	64	1000	3,58	2,40	500	19,69
76	3,00	92	3,62	16	250	64	1000	3,62	2,42	500	19,69
100	3,94	116	4,57	16	250	64	1000	4,63	3,10	675	26,57
102	4,00	118	4,65	16	250	64	1000	4,67	3,13	675	26,57

Data refer to ambient temperature (20°C).



## GLIDETECH® UPE FULL CONDUCTIVE



Suction and delivery hose designed according to EN 12115 standards for chemical products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION

#### Tube

UPE, black, conductive, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE

#### Reinforcement

synthetic plies, a/s copper wire to discharge static electricity, galvanized wire helices

#### Cover

wide corrugated, black, conductive, low friction material, non marking when dragged on the floor, abrasion, ozone, ageing, oil and chemical resistant, easy to clean, glossy cover

#### Sterilization

refer to guidelines for cleaning and sanitizing on Tudertecnica website

#### Marking

white/blue transfer tape

TUDERTECHNICA GLIDETECH® UPE FULL CONDUCTIVE



Embossed stripe according to the Norm EN 12115

TUDERTECHNICA UHMWPE EN12115:2011 DN SD PN 10 BAR Ω /T Q/Y

### TECHNICAL CHARACTERISTICS

#### Temperature range

-35°C / +100°C ( -31°F / +212°F )

#### Vacuum

675 mmHg ( 26,6 inHg )

#### Electrical properties

type Ω/T according to norm EN 12115 (R<10<sup>6</sup> Ω, R<10<sup>9</sup> Ω through the hose wall)

#### Norm

EN12115

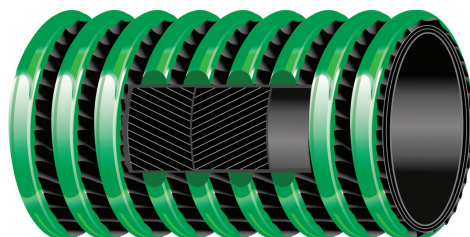
Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
25	1,00	37	1,46	10	150	40	600	0,71	0,48	100	3,94
32	1,25	44	1,73	10	150	40	600	0,87	0,58	125	4,92
38	1,50	51	2,00	10	150	40	600	1,11	0,74	150	5,91
50	1,97	66	2,60	10	150	40	600	1,87	1,25	200	7,87
51	2,00	67	2,64	10	150	40	600	1,90	1,27	200	7,87
63,5	2,50	79,5	3,13	10	150	40	600	2,34	1,57	260	10,24
75	2,95	91	3,58	10	150	40	600	2,72	1,82	350	13,78
76	3,00	92	3,62	10	150	40	600	2,75	1,84	350	13,78
100	3,94	116	4,57	10	150	40	600	3,86	2,59	500	19,69
102	4,00	118	4,65	10	150	40	600	3,89	2,61	500	19,69

Data refer to ambient temperature (20°C).





## SPIRALTECH® UPE CONDUCTIVE



Light and flexible lorry collecting hose suitable for chemical products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION

#### Tube

UPE, black, conductive, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE

#### Reinforcement Cover

synthetic plies, a/s copper wire to discharge static electricity  
corrugated, black, abrasion, ageing, ozone and oil resistant, outer thermoplastic helix

#### Sterilization

refer to guidelines for cleaning and sanitizing on Tudertecnica website

### TECHNICAL CHARACTERISTICS

#### Temperature range Norm

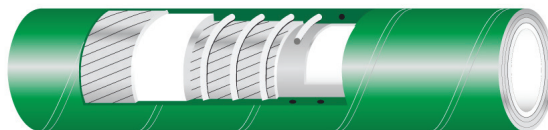
-25°C / +80°C ( -13°F / +176°F )  
ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	-	-	675	26,6	10	150	30	450	1,05	0,70	85	3,35
51	2,00	-	-	675	26,6	10	150	30	450	1,45	0,97	120	4,72
63,5	2,50	-	-	600	23,6	10	150	30	450	1,75	1,17	155	6,10
76	3,00	-	-	600	23,6	10	150	30	450	2,06	1,38	190	7,48
102	4,00	-	-	525	20,7	10	150	30	450	2,69	1,80	260	10,24

Other diameters, wall thickness and pressure only on specific request.  
Data refer to ambient temperature (20°C).



## GPS EVOLUTION



Suction and delivery hose designed for chemical products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION

- Tube** UPE, translucent. Phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE, JAPAN-MINISTRY OF HEALTH AND WELFARE NOTICE NO.370,1959 AND NO.201,2006
- Reinforcement** textile plies, a/s copper wire to discharge static electricity, galvanized wire helices
- Cover** smooth, green, abrasion, ageing and ozone resistant, cloth finish
- Sterilization** refer to guidelines for cleaning and sanitizing on Tudertechnica website
- Marking** TUDERTECHNICA GPS EVOLUTION



### TECHNICAL CHARACTERISTICS

- Temperature range** -30°C / +90°C ( -22°F / +194°F )
- Vacuum** 675 mmHg ( 26,6 inHg )
- Norm** ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	30	1,18	10	150	30	450	0,62	0,42	115	4,53
25	1,00	36	1,42	10	150	30	450	0,77	0,52	150	5,91
32	1,25	45	1,77	10	150	30	450	1,04	0,70	180	7,09
38	1,50	51	2,01	10	150	30	450	1,33	0,89	220	8,66
51	2,00	65	2,56	10	150	30	450	1,90	1,27	280	11,02
63,5	2,50	78,5	3,09	10	150	30	450	2,50	1,68	360	14,17
76	3,00	91	3,58	10	150	30	450	3,02	2,02	420	16,54
102	4,00	119	4,69	10	150	30	450	4,61	3,09	600	23,62

Other diameters, wall thickness, cover colours and pressure only on specific request.  
Data refer to ambient temperature (20°C).



## TUFLON PFA CHEM



Suction and delivery hose designed according to EN 12115 standards for chemicals and solvents, except for chlorine trifluoride, chlorine and fluorine gas, oxygen difluoride, phosgene and molten alkalis (for ex. sodium). Hose resistant to high temperatures, used as connection between pipes and fixed equipments. Designed for the chemical industry, foodstuff, pharmaceutical and cosmetic industry, where a flexible connection is required. The hose is produced with high quality elastomers, with excellent chemical and mechanical properties. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXII class VI, not cytotoxic according to ISO 10993 Section 5:2009. Not intended for use as an implant material. Not suitable for blood or human fluids.

### DESCRIPTION

#### Tube

PFA (perfluoroalkoxy), white, phthalates free, tested in according to 1907/2006/CE (REACH). PFA is a polymer with excellent resistance to high temperature, mechanical stress and to oxidation. It complies with FDA 21 CFR 177.1550, USP XXXII class VI, ISO 10993 Sections 5,10,11:2009 and JAPAN Ministry of Health and Welfare Notice No.370,1959 and No.201,2006

#### Reinforcement

synthetic plies, a/s copper wires to discharge static electricity, galvanized wire helices

#### Cover

smooth, EPDM, black, conductive, abrasion, ageing and ozone resistant, cloth finish

#### Sterilization

refer to guidelines for cleaning and sanitizing on Tudertecnica website

#### Marking

red/white/blue transfer tape TUDERTECHNICA TUFLON PFA CHEM



embossed according to norm EN 12115

TUDERTECHNICA PFA EN12115:2011 DN SD PN 16 BAR Ω Q/Y

### TECHNICAL CHARACTERISTICS

#### Temperature

-40°C / +150°C ( -40°F / +302°F ) The operating temperature of the hose is directly dependent upon the specific fluid been conveyed and the length of time the fluid is in contact with the hose

#### Vacuum

675 mmHg ( 26,6 inHg )

#### Electrical properties

type Ω according to EN 12115 (R<10<sup>6</sup> Ω)

#### Norm

EN12115

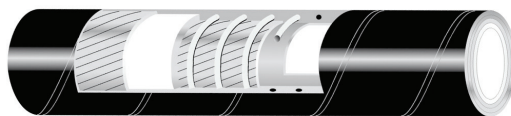
TRbF 131/2

Inside diameter		Outside diameter		Length		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mt]	[ft]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
13	0,50	25	1,00	40	130	16	250	64	1000	0,54	0,36	90	3,54
19	0,75	31	1,22	40	130	16	250	64	1000	0,70	0,47	130	5,12
25	1,00	37	1,46	40	130	16	250	64	1000	0,86	0,58	170	6,69
32	1,25	44	1,73	40	130	16	250	64	1000	1,18	0,79	215	8,46
38	1,50	51	2,00	40	130	16	250	64	1000	1,43	0,96	255	10,04
50	1,97	66	2,60	40	130	16	250	64	1000	2,08	1,39	330	12,99
63,5	2,50	79,5	3,13	20	65	16	250	64	1000	2,96	1,98	430	16,93
75	2,95	91	3,58	20	65	16	250	64	1000	3,43	2,30	510	20,08
100	3,94	116	4,57	20	65	12	180	48	750	4,60	3,08	675	26,57

Data refer to ambient temperature (20°C).



## TUFLON PTFE CHEM



Suction and delivery hose designed according to EN 12115 standards for chemicals and solvents, except for chlorine trifluoride, chlorine and fluorine gas, oxygen difluoride, phosgene and molten alkalis (for ex. sodium). Hose resistant to high temperatures, used as connection between pipes and fixed equipments. Designed for the chemical industry, foodstuff, pharmaceutical and cosmetic industry, where a flexible connection is required. The hose is produced with high quality elastomers, with excellent chemical and mechanical properties. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXVI class VI, not cytotoxic according to ISO 10993 Section 5:2009. Not intended for use as an implant material. Not suitable for blood or human fluids.

### DESCRIPTION

#### Tube

PTFE (polytetrafluorethylene) white, phthalates free, tested in compliance with 1907/2006/CE (REACH). PTFE is a polymer with excellent resistance to high temperature, mechanical stress and to oxidation. It complies with FDA 21 CFR 177.1550 standards, USP XXXVI class VI, ISO 10993 Sections 5,10,11:2009, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE, 3A Sanitary Standard Class II

#### Reinforcement

synthetic plies, galvanized wire helices, a/s copper wires to discharge static electricity

#### Cover

smooth, EPDM, black, conductive, abrasion, ageing and ozone resistant, cloth finish

#### Sterilization

refer to guidelines for cleaning and sanitizing on Tudertecnica website

#### Marking

red/white/blue transfer tape TUDERTECHNICA TUFLON PTFE CHEM



Embossed stripe according to the Norm EN 12115

TUDERTECHNICA PTFE EN12115:2011 DN SD PN 16 BAR Ω Q/Y

### TECHNICAL CHARACTERISTICS

#### Temperature

-40°C / +150°C ( -40°F / +302°F ) The operating temperature of the hose is directly dependent upon the specific fluid been conveyed and the length of time the fluid is in contact with the hose

#### Vacuum

675 mmHg ( 26,6 inHg )

#### Electrical properties

type Ω according to EN 12115 (R<10<sup>6</sup> Ω)

#### Norm

EN12115  
TRbF 131/2

Inside diameter		Outside diameter		Length		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mt]	[ft]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
13	0,50	25	1,00	40	130	16	250	64	1000	0,54	0,36	90	3,54
19	0,75	31	1,22	40	130	16	250	64	1000	0,70	0,47	130	5,12
25	1,00	37	1,46	40	130	16	250	64	1000	0,86	0,58	170	6,69
32	1,25	44	1,73	40	130	16	250	64	1000	1,18	0,79	215	8,46
38	1,50	51	2,00	40	130	16	250	64	1000	1,43	0,96	255	10,04
50	1,97	66	2,60	40	130	16	250	64	1000	2,08	1,39	330	12,99
63,5	2,50	79,5	3,13	20	65	16	250	64	1000	2,96	1,98	430	16,93
75	2,95	91	3,58	20	65	16	250	64	1000	3,43	2,30	510	20,08
100	3,94	116	4,57	20	65	12	180	48	750	4,60	3,08	675	26,57

Data refer to ambient temperature (20°C).



# TUFLON PTFE CHEM FULL CONDUCTIVE



Suction and delivery hose designed according to EN 12115 standards for chemicals and solvents, except for chlorine trifluoride, chlorine and fluorine gas, oxygen difluoride, phosgene and molten alkalis (for ex. sodium). Hose resistant to high temperatures, used as connection between pipes and fixed equipments. Designed for the chemical industry, foodstuff, pharmaceutical and cosmetic industry, where a flexible connection is required. The hose is produced with high quality elastomers, with excellent chemical and mechanical properties. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXII class VI, not cytotoxic according to ISO 10993 Section 5:2009. Tested and certified hose by INERIS for use in ATEX area (Ex-Zone). Not intended for use as an implant material. Not suitable for blood or human fluids.

## DESCRIPTION

### Tube

PTFE (polytetrafluorethylene) black, conductive, phthalates free, tested in compliance with 1907/2006/CE (REACH). PTFE is a polymer with excellent resistance to high temperature, mechanical stress and to oxidation. It complies with FDA 21 CFR 177.1550 standards, USP XXXII class VI, ISO 10993 Sections 5,10,11:2009, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE

### Reinforcement

synthetic plies, galvanized wire helices, a/s copper wires to discharge static electricity

### Cover

smooth, EPDM, black, conductive, abrasion, ageing and ozone resistant, cloth finish

### Sterilization

refer to guidelines for cleaning and sanitizing on Tudertecnica website

### Marking

red/white/blue transfer tape

TUDERTECHNICA TUFLON PTFE CHEM FULL CONDUCTIVE



Embossed stripe according to the Norm EN 12115

TUDERTECHNICA PTFE EN12115:2011 DN SD PN 16 BAR Ω/T Q/Y

## TECHNICAL CHARACTERISTICS

### Temperature

-40°C / +150°C ( -40°F / +302°F ) The operating temperature of the hose is directly dependent upon the specific fluid been conveyed and the length of time the fluid is in contact with the hose

### Vacuum

675 mmHg ( 26,6 inHg )

### Electrical properties

type Ω/T according to EN 12115 (R<10<sup>6</sup> Ω, R<10<sup>9</sup> Ω through the hose wall)

### Norm

EN12115

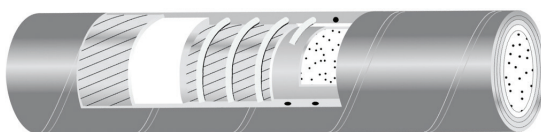
TRbF 131/2

Inside diameter		Outside diameter		Length		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mt]	[ft]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
13	0,50	25	1,00	40	130	16	250	64	1000	0,54	0,36	90	3,54
19	0,75	31	1,22	40	130	16	250	64	1000	0,70	0,47	130	5,12
25	1,00	37	1,46	40	130	16	250	64	1000	0,86	0,58	170	6,69
32	1,25	44	1,73	40	130	16	250	64	1000	1,18	0,79	215	8,46
38	1,50	51	2,00	40	130	16	250	64	1000	1,43	0,96	255	10,04
50	1,97	66	2,60	40	130	16	250	64	1000	2,08	1,39	330	12,99
63,5	2,50	79,5	3,13	20	65	16	250	64	1000	2,96	1,98	430	16,93
75	2,95	91	3,58	20	65	16	250	64	1000	3,43	2,30	510	20,08

Data refer to ambient temperature (20°C).



## TUCHEM UPE CHIPS PHARM



Suction and delivery hose designed according to EN 12115 standards for chemical and pharmaceutical products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH).

### DESCRIPTION

#### Tube

UPE, white with conductive chips, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE textile plies, a/s wire to discharge static electricity, galvanized wire helices smooth, EPDM, grey, abrasion, ageing and ozone resistant, cloth finish refer to guidelines for cleaning and sanitizing on Tudertecnica website

#### Reinforcement

#### Cover

#### Sterilization

#### Marking

TUDERTECHNICA TUCHEM UPE CHIPS PHARM



embossed according to norm EN 12115

TUDERTECHNICA UHMWPE EN12115:2011 DN SD PN 16 BAR Ω Q/Y

### TECHNICAL CHARACTERISTICS

#### Temperature range

-35°C / +100°C ( -31°F / +212°F )

#### Vacuum

675 mmHg ( 26,6 inHg )

#### Electrical properties

type Ω according to norm EN 12115 (R<10<sup>6</sup> Ω)

#### Norm

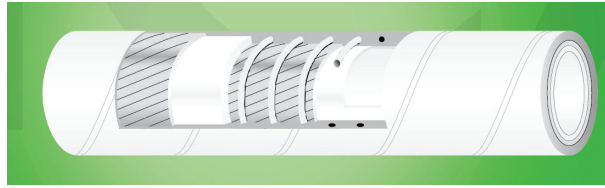
EN12115

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	31	1,22	16	250	64	1000	0,75	0,50	115	4,53
25	1,00	37	1,46	16	250	64	1000	0,92	0,62	155	6,10
32	1,25	44	1,73	16	250	64	1000	1,10	0,74	200	7,87
38	1,50	51	2,00	16	250	64	1000	1,39	0,93	240	9,45
50	1,97	66	2,60	16	250	64	1000	2,30	1,54	330	12,99
51	2,00	67	2,64	16	250	64	1000	2,33	1,56	330	12,99
63,5	2,50	79,5	3,13	16	250	64	1000	3,09	2,07	415	16,34
75	2,95	91	3,58	16	250	64	1000	3,58	2,40	500	19,69
76	3,00	92	3,62	16	250	64	1000	3,62	2,42	500	19,69
100	3,94	116	4,57	16	250	64	1000	4,63	3,10	675	26,57
102	4,00	118	4,65	16	250	64	1000	4,67	3,13	675	26,57

Data refer to ambient temperature (20°C).



## TUFLON PFA PHARM



Suction and delivery hose designed according to EN 12115 standards for food, cosmetic and pharmaceutical products, chemicals and solvents, except for chlorine trifluoride, chlorine and fluorine gas, oxygen difluoride, phosgene and molten alkalis (for ex. sodium). Hose resistant to high temperatures, used as connection between pipes and fixed equipments. Designed for the chemical industry, foodstuff, pharmaceutical and cosmetic industry, where a flexible connection is required. The hose is produced with high quality elastomers, with excellent chemical and mechanical properties. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXII class VI, not cytotoxic according to ISO 10993 Section 5:2009. Not intended for use as an implant material. Not suitable for blood or human fluids.

### DESCRIPTION

#### Tube

PFA (perfluoroalkoxy), white, phthalates free, tested in compliance with 1907/2006/CE (REACH). PFA is a polymer with excellent resistance to high temperature, mechanical stress and to oxidation. It complies with FDA 21 CFR 177.1550, USP XXXII class VI, ISO 10993 Sections 5,10,11:2009 and JAPAN Ministry of Health and Welfare Notice No.370,1959 and No.201,2006 synthetic plies, a/s wires to discharge static electricity, galvanized wire helices smooth, EPDM, white, abrasion, ageing and ozone resistant, cloth finish refer to guidelines for cleaning and sanitizing on Tudertechnica website red/white/blue transfer tape TUDERTECHNICA TUFLON PFA PHARM

#### Reinforcement

#### Cover

#### Sterilization

#### Marking



embossed according to norm EN 12115

TUDERTECHNICA PFA EN12115:2011 DN SD PN 16 BAR M Q/Y

### TECHNICAL CHARACTERISTICS

#### Temperature

-40°C / +150°C ( -40°F / +302°F ) The operating temperature of the hose is directly dependent upon the specific fluid been conveyed and the length of time the fluid is in contact with the hose

#### Vacuum

675 mmHg ( 26,6 inHg )

#### Electrical properties

type M according to EN 12115 (R<10<sup>2</sup> Ω)

#### Norm

EN12115

Inside diameter		Outside diameter		Length		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mt]	[ft]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
13	0,50	25	1,00	40	130	16	250	64	1000	0,54	0,36	90	3,54
19	0,75	31	1,22	40	130	16	250	64	1000	0,70	0,47	130	5,12
25	1,00	37	1,46	40	130	16	250	64	1000	0,86	0,58	170	6,69
32	1,25	44	1,73	40	130	16	250	64	1000	1,18	0,79	215	8,46
38	1,50	51	2,00	40	130	16	250	64	1000	1,43	0,96	255	10,04
50	1,97	66	2,60	40	130	16	250	64	1000	2,08	1,39	330	12,99
63,5	2,50	79,5	3,13	20	65	16	250	64	1000	2,96	1,98	430	16,93
75	2,95	91	3,58	20	65	16	250	64	1000	3,43	2,30	510	20,08
100	3,94	116	4,57	20	65	12	180	48	750	4,60	3,08	675	26,57

Data refer to ambient temperature (20°C).



## TUFLON PTFE PHARM



Suction and delivery hose designed according to EN 12115 standards for food, cosmetic and pharmaceutical products, chemicals and solvents, except for chlorine trifluoride, chlorine and fluorine gas, oxygen difluoride, phosgene and molten alkalis (for ex. sodium). Hose resistant to high temperatures, used as connection between pipes and fixed equipments. Designed for the chemical industry, foodstuff, pharmaceutical and cosmetic industry, where a flexible connection is required. The hose is produced with high quality elastomers, with excellent chemical and mechanical properties. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXVI class VI, not cytotoxic according to ISO 10993 Section 5:2009. Not intended for use as an implant material. Not suitable for blood or human fluids.

### DESCRIPTION

#### Tube

PTFE (polytetrafluorethylene) white, phthalates free, tested in compliance with 1907/2006/CE (REACH). PTFE is a polymer with excellent resistance to high temperature, mechanical stress and to oxidation. It complies with FDA 21 CFR 177.1550 standards, USP XXXVI class VI, ISO 10993 Sections 5,10,11:2009, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE, 3A Sanitary Standard Class II

#### Reinforcement

synthetic plies, galvanized wire helices, a/s wires to discharge static electricity

#### Cover

smooth, EPDM, white, abrasion, ageing and ozone resistant, cloth finish

#### Sterilization

refer to guidelines for cleaning and sanitizing on Tudertecnica website

#### Marking

red/white/blue transfer tape TUDERTECHNICA TUFLON PTFE PHARM



Embossed stripe according to the Norm EN 12115

TUDERTECHNICA PTFE EN12115:2011 DN SD PN 16 BAR M Q/Y

### TECHNICAL CHARACTERISTICS

#### Temperature

-40°C / +150°C ( -40°F / +302°F ) The operating temperature of the hose is directly dependent upon the specific fluid been conveyed and the length of time the fluid is in contact with the hose

#### Vacuum

675 mmHg ( 26,6 inHg )

#### Electrical properties

type M according to EN 12115 (R<10<sup>2</sup> Ω)

#### Norm

EN12115

Inside diameter		Outside diameter		Length		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mt]	[ft]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
13	0,50	25	1,00	40	130	16	250	64	1000	0,54	0,36	90	3,54
19	0,75	31	1,22	40	130	16	250	64	1000	0,70	0,47	130	5,12
25	1,00	37	1,46	40	130	16	250	64	1000	0,86	0,58	170	6,69
32	1,25	44	1,73	40	130	16	250	64	1000	1,18	0,79	215	8,46
38	1,50	51	2,00	40	130	16	250	64	1000	1,43	0,96	255	10,04
50	1,97	66	2,60	40	130	16	250	64	1000	2,08	1,39	330	12,99
63,5	2,50	79,5	3,13	20	65	16	250	64	1000	2,96	1,98	430	16,93
75	2,95	91	3,58	20	65	16	250	64	1000	3,43	2,30	510	20,08
100	3,94	116	4,57	20	65	12	180	48	750	4,60	3,08	675	26,57

Data refer to ambient temperature (20°C).





## TUFLON PTFE BIOTECH



Suction and delivery hose designed according to EN 12115 standards for food, cosmetic and pharmaceutical products, chemicals and solvents, except for chlorine trifluoride, chlorine and fluorine gas, oxygen difluoride, phosgene and molten alkalis (for ex. sodium). Hose resistant to high temperatures, used as connection between pipes and fixed equipments. Designed for the chemical industry, foodstuff, pharmaceutical and cosmetic industry, where a flexible connection is required. The hose is produced with high quality elastomers, with excellent chemical and mechanical properties. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXII class VI, not cytotoxic according to ISO 10993 Section 5:2009. Tested and certified hose by INERIS for use in Atex area (Ex-Zone). Not intended for use as an implant material. Not suitable for blood or human fluids.

### DESCRIPTION

#### Tube

PTFE (polytetrafluorethylene) black, conductive, phthalates free, tested in compliance with 1907/2006/CE (REACH). PTFE is a polymer with excellent resistance to high temperature, mechanical stress and to oxidation. It complies with FDA 21 CFR 177.1550 standards, USP XXXII class VI, ISO 10993 Sections 5,10,11:2009, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE

#### Reinforcement Cover

synthetic plies, galvanized wire helices, a/s wires to discharge static electricity smooth, white with conductive chips, low friction material, non marking when dragged on the floor, oil, chemical, abrasion, ageing and ozone resistant, easy to clean, glossy cover. Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E

#### Sterilization Marking

refer to guidelines for cleaning and sanitizing on Tudertechnica website red/white/blue transfer tape TUDERTECHNICA TUFLON PTFE BIOTECH



embossed according to norm EN 12115

TUDERTECHNICA PTFE EN12115:2011 DN SD PN 16 BAR Ω/T Q/Y

### TECHNICAL CHARACTERISTICS

#### Temperature

-40°C / +150°C ( -40°F / +302°F ) The operating temperature of the hose is directly dependent upon the specific fluid been conveyed and the length of time the fluid is in contact with the hose

#### Vacuum

675 mmHg ( 26,6 inHg )

#### Electrical properties Norm

type Ω / T according to EN 12115 (R<10<sup>6</sup> Ω, R<10<sup>9</sup> Ω through the hose wall) EN12115

Inside diameter		Outside diameter		Length		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mt]	[ft]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
13	0,50	25	1,00	40	130	16	250	64	1000	0,54	0,36	90	3,54
19	0,75	31	1,22	40	130	16	250	64	1000	0,70	0,47	130	5,12
25	1,00	37	1,46	40	130	16	250	64	1000	0,86	0,58	170	6,69
32	1,25	44	1,73	40	130	16	250	64	1000	1,17	0,78	220	8,66
38	1,50	51	2,00	40	130	16	250	64	1000	1,35	0,90	260	10,24
50	1,97	66	2,60	40	130	16	250	64	1000	2,25	1,51	345	13,58
63,5	2,50	79,5	3,13	20	65	16	250	64	1000	2,90	1,94	440	17,32
75	2,95	91	3,58	20	65	16	250	64	1000	3,88	2,60	520	20,47

Data refer to ambient temperature (20°C).

Available also with PFA and PTFE white tube (contact Tudertechnica for datasheet).



# GLIDETECH® PTFE BIOTECH



Suction and delivery hose designed according to EN 12115 standards for food, cosmetic and pharmaceutical products, chemicals and solvents, except for chlorine trifluoride, chlorine and fluorine gas, oxygen difluoride, phosgene and molten alkalis (for ex. sodium). Hose resistant to high temperatures, used as connection between pipes and fixed equipments. Designed for the chemical industry, foodstuff, pharmaceutical and cosmetic industry, where a flexible connection is required. The hose is produced with high quality elastomers, with excellent chemical and mechanical properties. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXII class VI, not cytotoxic according to ISO 10993 Section 5:2009. Tested and certified hose by INERIS for use in Atex area (Ex-Zone). Not intended for use as an implant material. Not suitable for blood or human fluids.

## DESCRIPTION

### Tube

PTFE (polytetrafluorethylene) black, conductive, phthalates free, tested in compliance with 1907/2006/CE (REACH). PTFE is a polymer with excellent resistance to high temperature, mechanical stress and to oxidation. It complies with FDA 21 CFR 177.1550 standards, USP XXXII class VI, ISO 10993 Sections 5,10,11:2009, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE

### Reinforcement Cover

synthetic plies, galvanized wire helices, a/s wires to discharge static electricity wide corrugated, white with conductive chips, low friction material, non marking when dragged on the floor, oil, chemical, abrasion, ageing and ozone resistant, easy to clean, glossy cover. Meets FDA 21 CFR 177.1520, BFR CAT III, DM 21.03.73 E SEGUENTI, EUROPEAN REGLEMENT 1935/2004/CE

### Sterilization Marking

refer to guidelines for cleaning and sanitizing on Tudertechnica website red/white/blue transfer tape TUDERTECHNICA GLIDETECH® PTFE BIOTECH



embossed according to norm EN 12115  
TUDERTECHNICA PTFE EN12115:2011 DN SD PN 10 BAR Ω/T Q/Y

## TECHNICAL CHARACTERISTICS

### Temperature

-40°C/+150°C ( -40°F / +320°F ) The operating temperature of the hose is directly dependent upon the specific fluid been conveyed and the length of time the fluid is in contact with the hose

### Vacuum

675 mmHg ( 26,6 inHg )

### Electrical properties Norm

type Ω /T according to EN 12115 (R<10<sup>6</sup> Ω, R<10<sup>9</sup> Ω through the hose wall) EN12115

Inside diameter		Outside diameter		Lenght		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mt]	[ft]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
13	0,50	25	1,00	40	130	10	150	40	600	0,49	0,33	70	2,76
19	0,75	31	1,22	40	130	10	150	40	600	0,64	0,43	100	3,94
25	1,00	37	1,46	40	130	10	150	40	600	0,79	0,53	130	5,12
32	1,25	44	1,73	40	130	10	150	40	600	0,91	0,61	160	6,30
38	1,50	51	2,00	40	130	10	150	40	600	1,24	0,83	190	7,48
50	1,97	66	2,60	40	130	10	150	40	600	1,84	1,23	250	9,84
63,5	2,50	79,5	3,13	20	65	10	150	40	600	2,56	1,72	320	12,60
75	2,95	91	3,58	20	65	10	150	40	600	2,98	2,00	380	14,96

Data refer to ambient temperature (20°C).

Available also with PFA and PTFE white tube (contact Tudertechnica for datasheet).



## TUFLON PTFE SIL



Suction and delivery hose for food, cosmetic and pharmaceutical products, chemicals and solvents, except , for chlorine trifluoride, chlorine and fluorine gas, oxygen difluoride, phosgene and molten alkalis (for ex. sodium). Hose resistant to high temperatures, used as connection between pipes and fixed equipments. Designed for the chemical industry, foodstuff, pharmaceutical and cosmetic industry, where a flexible connection is required. The hose is produced with high quality elastomers, with excellent chemical and mechanical properties. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXVI class VI, not cytotoxic according to ISO 10993 Section 5:2009. Not intended for use as an implant material. Not suitable for blood or human fluids.

### DESCRIPTION

#### Tube

PTFE (polytetrafluorethylene) white, phthalates free, tested in compliance with 1907/2006/CE (REACH). PTFE is a polymer with excellent resistance to high temperature, mechanical stress and to oxidation. It complies with FDA 21 CFR 177.1550 standards, USP XXXVI class VI, ISO 10993 Sections 5,10,11:2009, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE, 3A Sanitary Standard Class II

#### Reinforcement

synthetic plies, stainless steel wire helices, on request a/s wires to discharge static electricity

#### Cover

smooth, silicone, white. Meets FDA CFR 21 PART 177.2600, BfR Recommendation XV, European Reglement 1935/2004/CE. Heat, abrasion, ageing and ozone resistant, glossy cover

#### Sterilization

refer to guidelines for cleaning and sanitizing on Tudertechnica website

#### Marking

TUDERTECHNICA TUFLON PTFE SIL



### TECHNICAL CHARACTERISTICS

#### Temperature

-40°C / +150°C ( -40°F / +302°F ) The operating temperature of the hose is directly dependent upon the specific fluid been conveyed and the length of time the fluid is in contact with the hose

#### Vacuum

675 mmHg ( 26,6 inHg )

#### Norm

ISO 1307 for dimensional tolerances

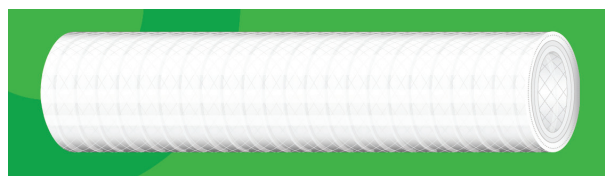
Inside diameter		Outside diameter		Length		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mt]	[ft]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
13	0,50	24	0,94	10	32,5	10	150	40	600	0,47	0,31	45	1,77
19	0,75	30	1,18	10	32,5	10	150	40	600	0,61	0,41	70	2,76
25	1,00	36	1,42	10	32,5	10	150	40	600	0,76	0,51	90	3,54
32	1,25	43	1,69	10	32,5	8	120	32	480	0,93	0,62	120	4,72
38	1,50	50	1,97	10	32,5	7	105	28	420	1,26	0,84	140	5,51
50	1,97	62	2,44	10	32,5	7	105	28	420	1,60	1,07	180	7,09
63,5	2,50	79,5	3,13	10	32,5	6	90	24	360	2,69	1,80	320	12,60
75	2,95	91	3,58	10	32,5	5	75	20	300	3,24	2,17	380	14,96
100	3,94	117	4,61	10	32,5	4	60	16	240	5,06	3,39	580	22,84

Data refer to ambient temperature (20°C) and static conditions; we recommend a reduction of 20% working pressure for every 100°C of temperature increase. Other diameters, wall thickness and pressure only on specific request.

Available also with PFA white and PTFE black tube (contact Tudertechnica for datasheet).



## TUSIL BRIGHT



Suction and delivery hose suitable for cosmetic, pharmaceutical and food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXII class VI, not cytotoxic according to ISO 10993 Section 5:2009. Meets migration test according to BfR Recommendation XV & XXI Cat. 2. Not intended for use as an implant material. Not suitable for blood or human fluids.

### DESCRIPTION

**Tube**

silicone, translucent, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA CFR 21 PART 177.2600, USP XXXII class VI requirements, European Pharmacopoeia 3.1.9 Ed. VII 2011, ISO 10993 Sections 5,10,11:2009, BfR Recommendation XV & XXI Cat. 2, European Reglement 1935/2004/CE, DM 21/03/1973 e seguenti, Japan Ministry of Health and Welfare Notice No.370,1959, No.201,2006 and revision 2012, 3A Sanitary Standard Class II

**Reinforcement**

high temperature resistant plies, stainless steel wire helix

**Cover**

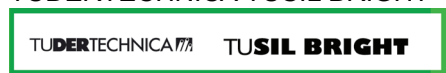
smooth, silicone, translucent, heat, ageing, ozone and abrasion resistant, glossy cover

**Sterilization**

refer to guidelines for cleaning and sanitizing on Tudertecnica website

**Marking**

TUDERTECHNICA TUSIL BRIGHT



### TECHNICAL CHARACTERISTICS

**Temperature range**

-60°C / +200°C ( -76°F / +392°F )

**Vacuum**

675 mmHg ( 26,6 inHg )

**Norm**

ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
13	0,50	24	0,94	15	225	45	675	0,46	0,31	60	2,36
16	0,63	27	1,06	14	210	42	630	0,53	0,36	70	2,76
19	0,75	30	1,18	13	195	39	585	0,60	0,40	80	3,15
25	1,00	36	1,42	10	150	30	450	0,73	0,49	100	3,94
32	1,25	43	1,69	8	120	24	360	0,89	0,60	130	5,12
38	1,50	51	2,00	7	105	21	315	1,21	0,81	155	6,10
51	2,00	64	2,52	6	90	18	270	1,56	1,05	210	8,27
63,5	2,50	78,5	3,09	5	75	15	225	2,32	1,55	260	10,24
76	3,00	91	3,58	4	60	12	180	2,72	1,82	310	12,20
102	4,00	117	4,61	3	45	9	135	3,55	2,38	420	16,54

Data refer to ambient temperature (20°C); we recommend a reduction of 20% working pressure for every 100°C of temperature increase. Other diameters, wall thickness and pressure only on specific request.



## TUSIL BRIGHT/D



Delivery hose suitable for cosmetic, pharmaceutical and food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXII class VI, not cytotoxic according to ISO 10993 Section 5:2009. Meets migration test according to BfR Recommendation XV & XXI Cat. 2. Not intended for use as an implant material. Not suitable for blood or human fluids.

### DESCRIPTION

**Tube** silicone, translucent, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA CFR 21 PART 177.2600, USP XXXII class VI requirements, European Pharmacopoeia 3.1.9 Ed. VII 2011, ISO 10993 Sections 5,10,11:2009, BfR Recommendation XV & XXI Cat. 2, European Reglement 1935/2004/CE, DM 21/03/1973 e seguenti, Japan Ministry of Health and Welfare Notice No.370,1959, No.201,2006 and revision 2012, 3A Sanitary Standard Class II

**Reinforcement** high temperature resistant plies  
**Cover** smooth, silicone, translucent, heat, ageing, ozone and abrasion resistant, glossy cover

**Sterilization** refer to guidelines for cleaning and sanitizing on Tudertecnica website  
**Marking** TUDERTECHNICA TUSIL BRIGHT



### TECHNICAL CHARACTERISTICS

**Temperature range** -60°C / +200°C ( -76°F / +392°F )  
**Norm** ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
10	0,39	22	0,87	-	-	16	250	48	750	0,35	0,23	-	-
13	0,50	25	1,00	-	-	15	225	45	675	0,41	0,27	-	-
16	0,63	28	1,10	-	-	14	210	42	630	0,48	0,32	-	-
19	0,75	31	1,22	-	-	13	195	39	585	0,55	0,37	-	-
25	1,00	37	1,46	-	-	10	150	30	450	0,68	0,46	-	-
32	1,25	44	1,73	-	-	8	120	24	360	0,83	0,56	-	-
38	1,50	50	1,97	-	-	7	105	21	315	0,96	0,64	-	-
51	2,00	63	2,48	-	-	6	90	18	270	1,24	0,83	-	-
63,5	2,50	76,5	3,01	-	-	5	75	15	225	1,68	1,13	-	-
76	3,00	89	3,50	-	-	4	60	12	180	1,98	1,33	-	-
102	4,00	115	4,53	-	-	3	45	9	135	2,61	1,75	-	-

Data refer to ambient temperature (20°C); we recommend a reduction of 20% working pressure for every 100°C of temperature increase. Other diameters, wall thickness and pressure only on specific request.



## TUSILPURE



Suction and delivery hose suitable for cosmetic, pharmaceutical and food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXII class VI, not cytotoxic according to ISO 10993 Section 5:2009. Not intended for use as an implant material. Not suitable for blood or human fluids.

### DESCRIPTION

#### Tube

silicone, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA CFR 21 PART 177.2600, USP XXXII class VI requirements, European Pharmacopoeia 3.1.9 Ed. VII 2011, ISO 10993 Sections 5,10,11:2009, BfR Recommendation XV & XXI Cat. 2, European Reglement 1935/2004/CE, DM 21/03/1973 e seguenti, 3A Sanitary Standard Class II

#### Reinforcement

high temperature resistant plies, stainless steel wire helix

#### Cover

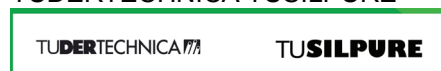
smooth, silicone, white, heat, ageing, ozone and abrasion resistant, glossy cover

#### Sterilization

refer to guidelines for cleaning and sanitizing on Tudertechnica website

#### Marking

TUDERTECHNICA TUSILPURE



### TECHNICAL CHARACTERISTICS

#### Temperature range

-60°C / +200°C ( -76°F / +392°F )

#### Vacuum

675 mmHg ( 26,6 inHg )

#### Norm

ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
13	0,50	23	0,91	15	225	45	675	0,38	0,25	60	2,36
16	0,63	26	1,02	14	210	42	630	0,44	0,29	70	2,76
19	0,75	29	1,14	13	195	39	585	0,50	0,34	80	3,15
25	1,00	35	1,38	10	150	30	450	0,61	0,41	100	3,94
32	1,25	42	1,65	8	120	24	360	0,76	0,51	130	5,12
38	1,50	49	1,93	7	105	21	315	1,05	0,70	155	6,10
51	2,00	62	2,44	6	90	18	270	1,36	0,91	210	8,27
63,5	2,50	76,5	3,01	5	75	15	225	2,06	1,38	260	10,24
76	3,00	89	3,50	4	60	12	180	2,42	1,62	310	12,20
102	4,00	115	4,53	3	45	9	135	3,39	2,27	420	16,54

Data refer to ambient temperature (20°C); we recommend a reduction of 20% working pressure for every 100°C of temperature increase. Other diameters, wall thickness and pressure only on specific request.





## TUSIL RAD



Straight connection between radiator and engine. Temperature range: -60°C / +200°C (-76°F / +392°F).

### DESCRIPTION

**Tube** silicone, green, heat and anti freeze liquid resistant  
**Reinforcement** high temperature resistant plies  
**Cover** smooth, silicone, green, abrasion, ageing, ozone and heat resistant, cloth finish  
**Marking** TUDERTECHNICA TUSIL RAD



### TECHNICAL CHARACTERISTICS

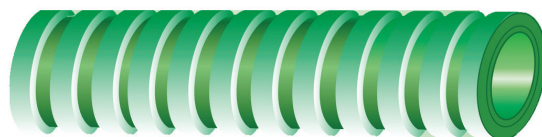
**Temperature range** -60°C / +200°C (-76°F / +392°F)  
**Norm** SAE J20R1 CLASS A  
 TMC RP303B  
 ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
10	0,39	18	0,71	-	-	20	300	60	900	0,20	0,13	-	-
13	0,50	21	0,83	-	-	19	285	57	855	0,24	0,16	-	-
16	0,63	24	0,94	-	-	17	255	51	765	0,29	0,19	-	-
19	0,75	29	1,14	-	-	13	195	39	585	0,45	0,30	-	-
25	1,00	35	1,48	-	-	11	165	33	495	0,56	0,38	-	-
32	1,25	42	1,65	-	-	9	135	27	405	0,70	0,47	-	-
38	1,50	48	1,89	-	-	7	105	21	315	0,81	0,54	-	-
51	2,00	61	2,40	-	-	6	90	18	270	1,05	0,79	-	-
63,5	2,50	73,5	2,89	-	-	5	75	15	225	1,28	0,86	-	-
76	3,00	86	3,39	-	-	4	60	12	180	1,52	1,02	-	-
102	4,00	112	4,41	-	-	3	45	9	135	2,01	1,35	-	-

Data refer to ambient temperature (20°C); we recommend a reduction of 20% working pressure for every 100°C of temperature increase. Other diameters, wall thickness and pressure only on specific request.



## TUSIL RADFLEX



Tight bend connection between radiator and engine. Can be used to replace pre-formed elbows due to the highly flexible structure. Temperature range:  $-60^{\circ}\text{C} / +200^{\circ}\text{C}$  (  $-76^{\circ}\text{F} / +392^{\circ}\text{F}$  ).

### DESCRIPTION

<b>Tube</b>	silicone, green, heat and anti freeze liquid resistant
<b>Reinforcement</b>	high temperature resistant plies, galvanized wire helix
<b>Cover</b>	square corrugated, silicone, green, abrasion, ageing, ozone and heat resistant, cloth finish
<b>Marking</b>	TUDERTECHNICA TUSIL RADFLEX

TUDERTECHNICA  **TUSIL RADFLEX**

### TECHNICAL CHARACTERISTICS

<b>Temperature range</b>	$-60^{\circ}\text{C} / +200^{\circ}\text{C}$ ( $-76^{\circ}\text{F} / +392^{\circ}\text{F}$ )
<b>Vacuum</b>	450 mmHg ( 17,7 inHg )
<b>Norm</b>	SAE J20R2 CLASS A TMC RP303B ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
13	0,50	23	0,91	5	75	15	225	0,31	0,21	30	1,18
16	0,63	26	1,02	5	75	15	225	0,37	0,25	40	1,57
19	0,75	29	1,14	5	75	15	225	0,42	0,28	50	1,97
25	1,00	35	1,38	5	75	15	225	0,53	0,36	65	2,56
32	1,25	43	1,69	5	75	15	225	0,79	0,53	85	3,35
38	1,50	49	1,93	5	75	15	225	0,92	0,62	105	4,13
51	2,00	64	2,52	5	75	15	225	1,48	0,99	150	5,91
63,5	2,50	77,5	3,05	5	75	15	225	1,97	1,32	220	8,66
76	3,00	92	3,62	5	75	15	225	2,56	1,72	270	10,63
102	4,00	119	4,69	5	75	15	225	3,70	2,48	400	15,75

Data refer to ambient temperature ( $20^{\circ}\text{C}$ ); we recommend a reduction of 20% working pressure for every  $100^{\circ}\text{C}$  of temperature increase. Other diameters, wall thickness and pressure only on specific request.

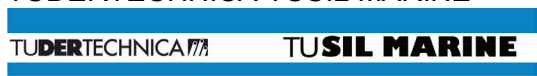
## TUSIL MARINE



Used as straight connections in the wet exhaust system and engine water circulation lines.

### DESCRIPTION

- Tube** silicone red, heat and salt water resistant
- Reinforcement** high temperature resistant plies
- Cover** smooth, blue silicone rubber, abrasion, ageing, ozone, heat and paraffin oil resistant, glossy cover
- Marking** TUDERTECHNICA TUSIL MARINE



### TECHNICAL CHARACTERISTICS

- Temperature range** -60°C / +200°C ( -76°F / +392°F )
- Norm** SAE J2006 TYPE R1  
ISO 13363:2004 – Type 1 class B  
ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Length		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mt]	[ft]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	28	1,10	40	130	13	195	39	585	0,40	0,27	-	-
25	1,00	34	1,34	40	130	10	150	30	450	0,50	0,34	-	-
28	1,10	37	1,46	40	130	10	150	30	450	0,55	0,37	-	-
32	1,25	41	1,61	40	130	8	120	24	360	0,62	0,42	-	-
35	1,38	44	1,73	40	130	8	120	24	360	0,67	0,45	-	-
38	1,50	47	1,85	40	130	7	105	21	315	0,72	0,48	-	-
42	1,65	51	2,00	40	130	7	105	21	315	0,78	0,52	-	-
45	1,77	54	2,13	40	130	6	90	18	270	0,84	0,56	-	-
48	1,90	57	2,24	40	130	6	90	18	270	0,89	0,60	-	-
51	2,00	60	2,36	40	130	5	75	15	225	0,94	0,63	-	-
60	2,36	69	2,72	40	130	5	75	15	225	1,09	0,73	-	-
63,5	2,50	72,5	2,85	40	130	4	60	12	180	1,15	0,77	-	-
67	2,64	76	3,00	40	130	4	60	12	180	1,20	0,80	-	-
70	2,76	79	3,11	40	130	4	60	12	180	1,26	0,84	-	-
73	2,87	82	3,23	40	130	4	60	12	180	1,30	0,87	-	-
76	3,00	85	3,35	40	130	4	60	12	180	1,36	0,91	-	-
90	3,54	99	3,90	40	130	3	45	9	135	1,59	1,07	-	-
102	4,00	111	4,37	40	130	3	45	9	135	1,80	1,21	-	-
114	4,49	123	4,84	40	130	2	30	6	90	1,99	1,33	-	-
127	5,00	136	5,35	40	130	2	30	6	90	2,22	1,49	-	-
140	5,51	149	5,87	12	39	2	30	6	90	2,43	1,63	-	-
152	6,00	161	6,34	12	39	2	30	6	90	2,65	1,78	-	-
203	8,00	212	8,35	12	39	1	15	3	45	3,50	2,35	-	-
254	10,00	263	10,35	12	39	1	15	3	45	4,34	2,91	-	-
305	12,00	318	12,52	12	39	1	15	3	45	8,27	5,54	-	-
350	13,78	365	14,37	12	39	1	15	3	45	10,35	6,93	-	-
404	15,91	419	16,50	12	39	1	15	3	45	11,89	7,97	-	-

Data refer to ambient temperature (20°C); we recommend a reduction of 20% working pressure for every 100°C of temperature increase. Other diameters, wall thickness and pressure only on specific request.

## TUSIL MARINE OND



Used as marine main engine exhaust, generator exhaust, engine coolant circulation, engine intake and generator intake.

### DESCRIPTION

<b>Tube</b>	silicone, red, heat and salt water resistant
<b>Reinforcement</b>	high temperature resistant plies, steel wire helices
<b>Cover</b>	wide corrugated, blue silicone rubber, abrasion, ageing, ozone, heat and paraffin oil resistant, glossy cover
<b>Marking</b>	TUDERTECHNICA TUSIL MARINE OND

TUDERTECHNICA  **TUSIL MARINE OND**

### TECHNICAL CHARACTERISTICS

<b>Temperature range</b>	-60°C / +200°C ( -76°F / +392°F )
<b>Vacuum</b>	450 mmHg ( 17,7 inHg )
<b>Norm</b>	SAE J2006 TYPE R2 ISO 13363:2004 Type 2 class B ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Length		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mt]	[ft]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	-	-	40	130	8	120	24	360	0,48	0,32	90	3,54
25	1,00	-	-	40	130	7	105	21	315	0,60	0,40	100	3,94
28	1,10	-	-	40	130	7	105	21	315	0,66	0,44	105	4,13
32	1,25	-	-	40	130	6	90	18	270	0,70	0,47	115	4,53
35	1,38	-	-	40	130	5	75	15	225	0,80	0,54	125	4,92
38	1,50	-	-	40	130	5	75	15	225	0,82	0,55	130	5,12
42	1,65	-	-	40	130	5	75	15	225	1,00	0,67	135	5,31
45	1,77	-	-	40	130	4	60	12	180	1,06	0,71	140	5,51
48	1,90	-	-	40	130	4	60	12	180	1,12	0,75	150	5,91
51	2,00	-	-	40	130	4	60	12	180	1,18	0,79	160	6,30
60	2,36	-	-	40	130	3	45	9	135	1,36	0,91	165	6,50
63,5	2,50	-	-	40	130	3	45	9	135	1,63	1,09	170	6,69
67	2,64	-	-	40	130	3	45	9	135	1,70	1,14	175	6,89
70	2,76	-	-	40	130	3	45	9	135	1,77	1,19	180	7,09
73	2,87	-	-	40	130	3	45	9	135	1,85	1,24	200	7,87
76	3,00	-	-	40	130	3	45	9	135	1,92	1,29	220	8,66
90	3,54	-	-	40	130	2	30	6	90	3,21	2,15	250	9,84
102	4,00	-	-	40	130	2	30	6	90	3,62	2,43	280	11,02
115	4,50	-	-	40	130	2	30	6	90	4,02	2,69	290	11,42
127	5,00	-	-	40	130	2	30	6	90	4,43	2,97	300	11,81
140	5,51	-	-	12	39	2	30	6	90	5,69	3,81	360	14,17
152	6,00	-	-	12	39	2	30	6	90	6,04	4,05	400	15,75
203	8,00	-	-	12	39	2	30	6	90	10,87	7,28	450	17,72
254	10,00	-	-	12	39	2	30	6	90	14,81	9,92	1200	47,24
305	12,00	-	-	12	39	2	30	6	90	18,55	12,43	1450	57,09
350	13,78	-	-	12	39	2	30	6	90	21,42	14,35	1750	68,90
404	15,91	-	-	12	39	1	15	3	45	26,55	17,79	2000	78,74

Data refer to ambient temperature (20°C); we recommend a reduction of 20% working pressure for every 100°C of temperature increase. Other diameters, wall thickness and pressure only on specific request.

## TUSIL CRYO



Delivery of dry ice and extremely low temperature air. Temperature range: -85°C / +200°C (-121°F / +392°F).

### DESCRIPTION

**Tube** silicone, red  
**Reinforcement** synthetic plies  
**Cover** smooth, red silicone, abrasion, ageing, ozone and paraffin oil resistant, cloth finish, on request glossy cover  
**Marking** TUDERTECHNICA TUSIL CRYO



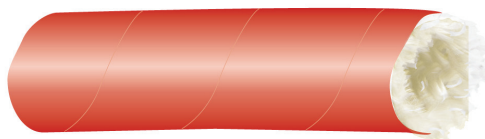
### TECHNICAL CHARACTERISTICS

**Temperature range** -85°C / +200°C (-121°F / +392°F)  
**Norm** ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
16	0,63	27	1,06	-	-	14	210	42	630	0,47	0,31	-	-
19	0,75	30	1,18	-	-	13	195	39	585	0,53	0,35	-	-
22	0,87	32	1,26	-	-	12	180	36	540	0,52	0,35	-	-
25	1,00	35	1,38	-	-	11	165	33	495	0,57	0,38	-	-
28	1,10	38	1,50	-	-	10	150	30	450	0,63	0,42	-	-

Data refer to ambient temperature (20°C); we recommend a reduction of 20% working pressure for every 100°C of temperature increase. Other diameters, wall thickness and pressure only on specific request.

## TUSIL GLASS



For bundling hoses, lines, tubes and cables in extreme environments. The tricotee construction gives the fire sleeve high flexibility and elasticity making it an easy way to cover any product that needs to be protected. Its smooth cover prevents the melting drops, scum and welding slags to deposit in between the fiberglass fibers. Silicone rubber protects the sleeve from abrasion, making it easier for cleaning and does not let the micro-fibers disperse. The physical structure and raw materials used give the sleeve a high degree of electrical insulation.

### DESCRIPTION

#### Tube

tricotee fiberglass sleeve silicone coated

#### Marking

TUDERTECHNICA TUSIL GLASS

**TUDERTECHNICA** **TUSIL GLASS**

### TECHNICAL CHARACTERISTICS

#### Temperature range

fiberglass sleeve up to +550°C ( +1022°F )

silicone cover -60°C / +250°C ( -76°F / +482°F )

#### Norm

#### Length

ISO 1307 for dimensional tolerances.

10 mt ( 32,5 ft )

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
12	0,46	18,5	0,73	-	-	-	-	-	-	0,13	0,09	-	-
16	0,63	22,5	0,89	-	-	-	-	-	-	0,17	0,11	-	-
19	0,75	25,5	1,01	-	-	-	-	-	-	0,19	0,13	-	-
22	0,87	28,5	1,12	-	-	-	-	-	-	0,22	0,15	-	-
25	1,00	31,5	1,24	-	-	-	-	-	-	0,24	0,16	-	-
28	1,10	34,5	1,36	-	-	-	-	-	-	0,27	0,18	-	-
32	1,25	38,5	1,52	-	-	-	-	-	-	0,30	0,20	-	-
35	1,38	41,5	1,63	-	-	-	-	-	-	0,32	0,21	-	-
38	1,50	44,5	1,75	-	-	-	-	-	-	0,35	0,23	-	-
41	1,61	47,5	1,87	-	-	-	-	-	-	0,37	0,25	-	-
44	1,73	50,5	1,99	-	-	-	-	-	-	0,40	0,27	-	-
51	2,00	57,5	2,26	-	-	-	-	-	-	0,46	0,31	-	-
57	2,24	63,5	2,50	-	-	-	-	-	-	0,51	0,34	-	-
63,5	2,50	70,0	2,76	-	-	-	-	-	-	0,56	0,38	-	-
70	2,76	76,5	3,01	-	-	-	-	-	-	0,61	0,41	-	-

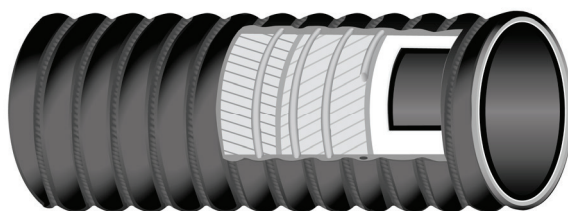
Other sizes available on request.

On request we can supply:

fiberglass sleeve up to +750°C ( +1382°F ) temperature resistant.

fiberglass sleeve up to +1000°C ( +1832°F ) temperature resistant.

# MARMOTECH™



Suction and delivery hose suitable for abrasive materials like coal dust, sand, stone chips in dredging operations. Can be assembled with reusable aluminum coupling system.

## DESCRIPTION

- Tube\*** NR/SBR, black, conductive, abrasion resistant
- Reinforcement** synthetic plies, steel wire helix, on request a/s copper wires to discharge static electricity
- Cover** corrugated, CR, black, conductive, abrasion, ageing, ozone and oil resistant, cloth finish
- Marking** TUDERTECHNICA MARMOTECH™



## TECHNICAL CHARACTERISTICS

- Temperature range** -40°C / +70°C ( -40°F / +158°F )
- Norm** ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Vacuum		Lenght		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mmHg]	[inHg]	[mt]	[ft]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	70	2,76	675	26,6	40	130	10	150	30	450	3,48	2,33	200	7,87
51	2,00	76	3,00	675	26,6	40	130	10	150	30	450	3,44	2,30	270	10,63
76	3,00	115	4,53	675	26,6	40	130	10	150	30	450	7,36	4,93	380	14,96
102	4,00	134	5,28	675	26,6	40	130	10	150	30	450	8,31	5,57	550	21,65
127	5,00	163	6,42	675	26,6	40	130	10	150	30	450	11,39	7,63	700	27,56
152	6,00	190	7,48	675	26,6	40	130	10	150	30	450	13,79	9,24	900	35,43
203	8,00	242	9,53	525	20,7	12	39	10	150	30	450	20,29	13,59	1400	55,12
254	10,00	293	11,54	525	20,7	12	39	10	150	30	450	23,12	15,49	1800	70,87
305	12,00	350	13,78	375	14,8	12	39	10	150	30	450	29,37	19,68	2400	94,49
355	14,00	410	16,14	375	14,8	12	39	10	150	30	450	38,53	25,82	2900	114,17
404	16,00	460	18,11	375	15,8	12	39	10	150	30	450	48,41	32,43	3400	133,86

Other diameters, wall thickness and pressure only on specific request.  
Data refer to ambient temperature (20°C).

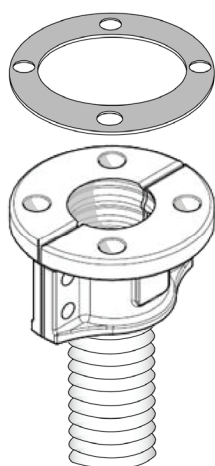
**\*on request available tan NR tube, black EPDM tube and white food grade compounds tube**

## ALUMINUM COUPLINGS

Reusable aluminum coupling system, suitable to be fitted to MARMOTECH™ and STEELBLAST hoses, including:

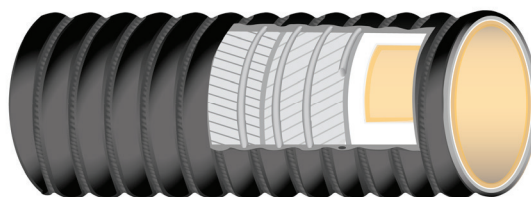
- Aluminum semi-flanges according to UNI EN 1092-1 PN 10 (ex UNI 2277)
- Flat black SBR gasket
- Bolts, nuts and washers for the semi-flanges connection

Easy to handle and to install: special tools and trained personnel staff are not required. Designed with self-blocking domed cup nuts to facilitate the semi-flanges connection.



Nominal Size		Couplings dimensions							Nipple lenght		Appr. weight	
		Holes number	Holes diameter		Bolt circle		Outside flange diameter					
[mm]	[in]		[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[kg]	[lbs]
40	1,50	4	18	0,71	110	4,33	150	5,91	86	3,39	1,3	2,9
50	2,00	4	18	0,71	125	4,92	165	6,50	86	3,39	1,6	3,5
75	3,00	8	18	0,71	160	6,30	200	7,87	88	3,46	2,1	4,6
100	4,00	8	18	0,71	180	7,09	220	8,66	105	4,13	2,8	6,2
125	5,00	8	18	0,71	210	8,27	250	9,84	110	4,33	3,6	7,9
150	6,00	8	22	0,87	240	9,45	285	11,22	120	4,72	4,8	10,6
200	8,00	8	22	0,87	295	11,61	340	13,39	155	6,10	7,8	17,2
250	10,00	12	22	0,87	350	13,78	395	15,55	175	6,89	9,5	20,9
300	12,00	12	22	0,87	400	15,75	445	17,52	200	7,87	14	30,9
350	14,00	16	22	0,87	460	18,11	505	19,88	210	8,27	17	37,5
400	16,00	16	26	1,02	515	20,28	565	22,24	220	8,66	22	48,5

## STEELBLAST



Suction and delivery hose suitable for extremely abrasive bulk materials like coal dust, sand, stone chips. Can be assembled with reusable aluminum coupling system (see page 71).

### DESCRIPTION

- Tube** polyurethane, transparent
- Reinforcement** synthetic plies, steel wire helix, a/s copper wires to discharge static electricity
- Cover** corrugated, CR, black, conductive, abrasion, ageing, ozone and oil resistant, cloth finish
- Marking** TUDERTECHNICA STEELBLAST



### TECHNICAL CHARACTERISTICS

- Temperature range** -30°C / +100°C ( -22°F / +212°F )
- Vacuum** 675 mmHg ( 26,6 inHg )
- Norm** ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
38	1,50	70	2,76	10	150	30	450	3,71	2,49	200	7,87
51	2,00	76	3,00	10	150	30	450	3,60	2,41	270	10,63
76	3,00	115	4,53	10	150	30	450	8,16	5,47	380	14,96
102	4,00	134	5,28	10	150	30	450	8,92	5,98	550	21,65

Other diameters, wall thickness and pressure only on specific request.  
Data refer to ambient temperature (20°C).



## DREDGING HOSES

### DRAGATELA



Discharge hose suitable for the delivery of abrasive material mixed with water. Especially used in the dredging system as connection between pump and suction pipe, discharging the material collected from the dredger. It can be manufactured in service lengths with enlarged cuffs, vulcanised flanges, vulcanised flanges rubber protected and rubber flanges.

### DRAGABRASIVO A



Discharge hose suitable for abrasive material mixed with water. Especially used in the dredging system as connection between the suction pipes and pump. It can be manufactured in service lengths with enlarged cuffs, vulcanized flanges, vulcanized flanges rubber protected or rubber flanges.

### DRAGABRASIVO M



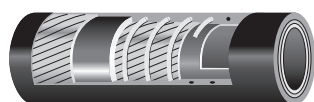
Suction and discharge hose suitable for abrasive material mixed with water. Especially used in the dredging system as connection between the suction pipes and pump, where a narrow bending radius without crushing is necessary. The hose can be manufactured in service lengths with enlarged ends, vulcanized flanges, vulcanized flanges rubber protected or rubber flanges.

### ANELLATO



Dredging hose used as the flexible connection between the vacuum pump and metal jib allowing the auger mechanism to operate on the sea bed. Normally manufactured in service lengths provided with soft or enlarged ends, vulcanised flanges, vulcanised flanges rubber protected and rubber flanges.

### IDROCICLONE



Suction and discharge hose suitable for abrasive material mixed with water. Especially used in crushing plants, cleaning and sorting plants, storage and transport of slurry. The hose is readily provided with aluminum semi-flanges UNI 2277 PN 10 to be fixed with bolts to the external side of the flange.

### COUPLINGS



Aluminium flanges are suitable to be fitted to the external cover of our IDROCICLONE hose type. Fitting is easy and fast: it is just necessary to join the two semi-flanges by fixing the rubber hose inside and attaching the bolts. Once the two semi-flanges are fixed, the resistance of the system is assured by internal rounded ribs, which are located on the internal part of the flange and which can be fixed on the hose cover without damaging the hose surface. With this fitting system, the abrasive material does not get in contact with the metal couplings. In this way, there is no wear on the couplings and they can be used again even if the hose is worn out. Since the aluminium is a light metal, a better hose handling is granted.

## PERISTALTICO



Delivery hose suitable for a wide range of products in peristaltic pumps.

According to the different application, the hose can be designed for:

- Abrasive materials
- Food liquids
- Acids at low concentration

### DESCRIPTION

**Tube** rubber according to the application

**Reinforcement** special synthetic plies

**Cover** smooth, black, abrasion, ageing and ozone resistant, cloth finish

- Dimensions: I.D. from 10mm to 127mm
- Temperature range: depending on the fluid conveyed
- On request available with grinded cover
- Normally supplied in service lengths
- On request can be manufactured with enlarged ends



# COUPLINGS



**TUDERTECHNICA** hoses can be used with a wide range of different couplings for food, chemical, pharmaceutical, cosmetic and industrial application.



# ENDS/FITTINGS

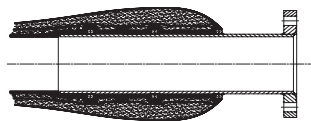
Tudertecnica hoses can be manufactured with the following ends:



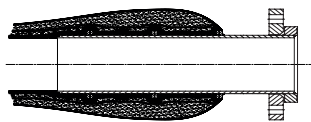
Soft ends cuffs without metal wire permitting a better connection between the hose and the pipe using clamps or safety.



Enlarged ends cuffs to achieve a better connection between the pipe and the hose to avoid turbulence with the material being conveyed and to reduce the wear of the rubber tube and the metal pipe.

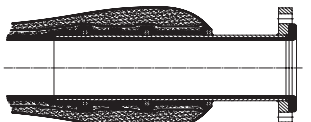


Vulcanized fixed flanges.

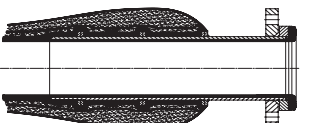


Vulcanized swivel flanges.

THE BELOW MENTIONED SOLUTIONS ALLOW A BETTER PROTECTION OF THE NIPPLE WHICH IS NOT IN CONTACT WITH THE MEDIUM BEING CONVOYED.



Vulcanized built in rubber protected nipple and fixed flanges. The rubber cover the nipple to form a seal like a gasket.



Vulcanized built in rubber protected nipple and swivel flanges. The rubber cover the nipple to form a seal like a gasket.



Vulcanized beaded ends and split flanges; flexible flanges connection suitable to support medium duty application.



Vulcanized rubber flanges which can be provided with swivel semi-flanges; flexible flanges connection, suitable to assure sealing and flexibility even under heavy working conditions.



Vulcanized rubber flanges with metal flanges "sandwich"; flexible flange connection, suitable to assure sealing and flexibility under the heaviest working conditions.

## FLUOROPOLYMERS CHEMICAL RESISTANCE \*

	teflon®	
	PTFE	PFA
Acetaldehyde	E	E
Acetamide, Sat.	E	E
Acetic Acid, 5%	E	E
Acetic Acid, 50%	E	E
Acetone	E	E
Acetonitrile	E	E
Acrylonitrile	E	E
Adipic Acid	E	E
Alanine	E	E
Allyl Alcohol	E	E
Aluminum Hydroxide	E	E
Aluminum Salts	E	E
Amino Acids	E	E
Ammonio	E	E
Ammonium Acetate, Sat.	E	E
Ammonium Glycolate	E	E
Ammonium Hydroxide, 5%	E	E
Ammonium, Hydroxide, 30%	E	E
Ammonium Oxalate	E	E
Ammonium Salts	E	E
n-Amyl Acetate	E	E
Amyl Chloride	E	E
Aniline	E	E
Benzaldehyde	E	E
Benzene	E	E
Benzoic Acid, Sat.	E	E
Benzyl Acetate	E	E
Benzyl Alcohol	E	E
Bromine	E	E
Bromobenzene	E	E
Bromoform	E	E
Butadiene	E	E
n-Butyl Acetate	E	E
n-Butyl Alcohol	E	E
sec-Butyl Alcohol	E	E
tert-Butyl Alcohol	E	E
Butyric Acid	E	E
Calcium Hydroxide, Conc.	E	E
Calcium Hypochlorite, Sat.	E	E
Carbazole	E	E
Carbon Disulfide	E	E
Carbon Tetrachloride	E	E
Cedarwood Oil	E	E
Cellosolve Acetate	E	E
Chlorine, 10% in Air	E	E
Chlorine, 10% (Moist)	E	E
Chloroacetic Acid	E	E
p-Chloroacetophenone	E	E
Chloroform	E	E
Chromic Acid, 10%	E	E
Chromic Acid, 50%	E	E

	teflon®	
	PTFE	PFA
Cinnamon Oil	E	E
Citric Acid, 10%	E	E
Cresol	E	E
Cyclohexane	E	E
Decalin	E	E
o-Dichlorobenzene	E	E
p-Dichlorobenzene	E	E
Diethyl Benzene	E	E
Diethyl Ether	E	E
Diethyl Ketone	E	E
Diethyl Malonate	E	E
Diethylene Glycol	E	E
Diethylene Glycol Ethyl Ether	E	E
Dimethyl Formamide	E	E
Dimethylsulfoxide	E	E
1,4-Dioxane	E	E
Dipropylene Glycol	E	E
Ether	E	E
Ethyl Acetate	E	E
Ethyl Alcohol (absolute)	E	E
Ethyl Alcohol, 40%	E	E
Ethyl Benzene	E	E
Ethyl Benzoate	E	E
Ethyl Butyrate	E	E
Ethyl Chloride	E	E
Ethyl Cyanoacetate	E	E
Ethyl Lactate	E	E
Ethylene Chloride, Liquid	E	E
Ethylene Glycol	E	E
Ethylene Glycol Methyl Ether	E	E
Ethylene Oxide	E	E
Fluorides	E	E
Fluorine	A	A
Formaldehyde, 10%	E	E
Formaldehyde, 40%	E	E
Formic Acid, 3%	E	E
Formic Acid, 50%	E	E
Formic Acid, 98-100%	E	E
Fuel Oil	E	E
Gasoline	E	E
Glacial Acetic Acid	E	E
Glycerin	E	E
n-Heptane	E	E
Hexane	E	E
Hydrochloric Acid, 1-5%	E	E
Hydrochloric Acid, 20%	E	E
Hydrochloric Acid, 35%	E	E
Hydrofluoric Acid, 4%	E	E
Hydrofluoric Acid, 48%	E	E
Hydrogen Peroxide, 3%	E	E
Hydrogen Peroxide, 30%	E	E

## FLUOROPOLYMERS CHEMICAL RESISTANCE \*

	teflon®	
	PTFE	PFA
Hydrogen Peroxide, 90%	E	E
Isobutyl Alcohol	E	E
Isopropyl Acetate	E	E
Isopropyl Alcohol	E	E
Isopropyl Benzene	E	E
Kerosene	E	E
Lactic Acid, 3%	E	E
Lactic Acid, 85%	E	E
Methoxyethyl Oleate	E	E
Methyl Alcohol	E	E
Methyl Ethyl Ketone	E	E
Methyl Isobutyl Ketone	E	E
Methyl Propyl Ketone	E	E
Methylene Chloride	E	E
Mineral Oil	E	E
Nitric Acid, 1-10%	E	E
Nitric Acid, 50%	E	E
Nitric Acid, 70%	E	E
Nitrobenzene	E	E
n-Octane	E	E
Orange Oil	E	E
Ozone	E	E
Perchloric Acid	A	A
Perchloroethylene	E	E
Phenol, Crystals	E	E
Phosphoric Acid, 1-5%	E	E
Phosphoric Acid, 85%	E	E
Pine Oil	E	E
Potassium Hydroxide, 1%	E	E
Potassium Hydroxide, Conc.	E	E
Propene Gas	E	E
Propylene Glycol	E	E
Propylene Oxide	E	E
Resorcinol, Sat.	E	E
Resorcinol, 5%	E	E
Salicylaldehyde	E	E
Salicylic Acid, Powder	E	E
Salicylic Acid, Sat.	E	E
Salt Solutions, Metallic	E	E
Silver Acetate	E	E
Silver Nitrate	E	E
Sodium Acetate, Sat.	E	E
Sodium Hydroxide, 1%	E	E
Sodium Hydroxide, 50% to Sat.	E	E
Sodium Hypochlorite, 15%	E	E
Stearic Acid, Crystals	E	E
Sulfuric Acid, 1-6%	E	E
Sulfuric Acid, 20%	E	E
Sulfuric Acid, 60%	E	E
Sulfuric Acid, 98%	E	E
Sulfuric Dioxide, Liq., 46psi	E	E

	teflon®	
	PTFE	PFA
Sulfuric Dioxide, wet or dry	E	E
Sulfur Salts	E	E
Tartaric Acid	E	E
Tetrahydrofuran	E	E
Thionyl Chloride	E	E
Toluene	E	E
Tributyl Citrate	E	E
Trichloroethane	E	E
Trichloroethylene	E	E
Triethylene Glycol	E	E
Tripropylene Glycol	E	E
Turpentine	E	E
Undecyl Alcohol	E	E
Urea	E	E
Vinylidene Chloride	E	E
Xylene	E	E
Zinc Stearate	E	E

### Legend

**E EXCELLENT  
RESISTANCE**

**A GOOD  
RESISTANCE**

\*

The present tabulation is based on tests and on generally available sources, and believed to be reliable. However must be used as a guidance only since it does not take in consideration all variable that may be encountered in actual use, such as and not limited to: temperature, concentration, pressure, duration of exposure, stability of the fluid and possible contamination. All application should always be tested: the compound should always be tested with the chemical it is going to handle. Please note: all data based on 21 °C (70 °F) unless noted.

**POLYMERS CHEMICAL RESISTANCE CHART \***



	NATURAL RUBBER NR	SBR		CHLOROPRENE	NITRILE		BUTYL	hypalon®	EPM		silicone	viton®	CROSS-LINKED POLYETHYLENE	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE	teflon®
		SBR	SBR	CR	NBR	IIR	CSM	EPDM	EPDM	VMQ	FKM	XLPE	UHMWPE	PTFE	
Acetic acid, duluite, 10%	B	C	C	C	A	A	C	A	A	B	A	A	A	A	
Acetic acid glacial	C	X	X	X	B	B	C	B	A	C	A	X	A	A	
Acetic acid anhydride	C	C	B	B	B	B	A	I	B	I	A	X	A	A	
Acetone	B	C	B	X	A	A	B	A	A	X	A	X	A	A	
Acetylene	A	A	B	A	A	A	B	A	A	C	A	A	A	A	
Air	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Air 68°F (20°C)	A	A	A	A	A	A	A	A	A	A	A	I	A	A	
Air 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Aluminium chloride	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Aluminium fluoride	A	A	A	A	A	A	A	A	A	B	A	I	A	A	
Aluminium sulfate	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Alums	A	A	A	A	A	A	A	A	A	A	A	I	A	A	
Alums 150°F (65°C)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Ammonia gas, anhydrous	B	B	B	B	A	A	A	A	A	A	A	A	A	A	
Ammonia 10%water solution	B	B	B	B	A	A	A	B	A	A	A	A	A	A	
Ammonia 30%water solution	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Ammonium chloride	C	B	B	B	A	A	A	A	A	A	A	A	A	A	
Ammonium hydroxide	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Ammonium nitrate	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Ammonium phosphate monobasic	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Ammonium phosphate dibasic	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Ammonium phosphate tribasic	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Ammonium sulfate	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Ammonium sulfite	B	X	X	X	B	B	X	A	B	X	A	X	A	A	
Amyl alcohol	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Aniline, Aniline oil	X	X	C	X	X	X	X	C	B	X	A	A	A	A	
Aniline, dyes	B	B	B	X	A	A	B	C	A	X	A	B	A	A	
Asphalt	X	X	B	B	X	B	B	X	X	I	A	A	A	A	
Barium chloride	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Barium hydroxide	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Barium sulfide	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Beer	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Beet sugar liquors	A	A	A	A	A	A	A	A	A	A	A	A	A	A	



# POLYMERS CHEMICAL RESISTANCE CHART \*



	NATURAL RUBBER		SBR	CHLOROPRENE	NITRILE	BUTYL	hypalon®	EPDM	EPM	silicone	viton®	CROSS-LINKED POLYETHYLENE	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE	teflon®
	NR	SBR	CR	NBR	IIR	CSM	EPDM	EPM	VMQ	FKM	XLPE	UHMWPE	PTFE	
Benzene, Benzol	X	X	X	X	X	X	X	X	X	X	A	A	A	A
Benzine, petroleum ether	I	I	I	I	I	I	I	I	I	I	I	I	B	A
Benzine, petroleum naphtha	X	X	C	A	X	B	X	X	X	X	A	A	B	A
Black sulfate liquor	A	A	A	A	A	A	A	A	A	I	A	A	A	A
Blast furnace gas	C	C	A	C	C	C	C	C	C	A	A	A	A	A
Borax	A	A	A	A	A	A	A	A	B	A	A	A	A	A
Boric acid	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Bromine	X	X	X	X	X	C	X	X	X	X	X	X	X	A
Butane	X	X	A	A	X	A	X	X	X	X	A	A	A	A
Butyl acetate	X	X	X	X	B	X	B	B	B	X	A	A	A	A
Butyl alcohol, Butanol	A	A	A	A	A	A	A	A	C	A	A	A	A	A
Calcium bisulfate	C	C	A	A	B	A	B	A	C	A	A	A	A	A
Calcium chloride	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Calcium hydroxide	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Calcium hypochlorite	X	X	X	X	A	B	A	A	C	A	A	A	A	A
Caliche liquors	A	A	A	A	A	A	A	A	B	A	A	A	A	A
Cane sugar liquors	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Carbolic acid, phenol	C	C	C	C	C	C	A	A	X	A	A	A	A	A
Carbon dioxide, dry-wet	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Carbon disulfide	X	X	X	X	X	X	X	X	X	X	C	C	C	A
Carbon monoxide	C	C	C	C	C	B	C	C	A	A	A	A	A	A
Carbon tetrachloride	X	X	X	C	X	X	X	X	X	X	A	A	C	A
Castor oil	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Cellosolve acetate	B	B	X	X	A	I	A	A	X	X	X	A	A	A
CFC-12	X	X	A	A	B	I	B	C	I	I	C	I	I	A
China wood oil, tung oil	X	X	B	A	A	B	A	C	X	X	A	A	A	A
Chlorine, dry/wet	X	X	X	X	X	C	X	X	X	X	C	C	X	A
Chlorinated solvents	X	X	X	X	X	X	X	X	X	X	A	A	B	A
Chloroacetic acid	X	C	C	C	X	A	I	A	I	X	A	A	A	A
Chlorosulfonic acid	X	X	C	C	X	X	X	X	X	X	C	C	X	A
Chromic acid	X	X	X	X	C	A	I	I	I	C	A	A	C	A

**POLYMERS CHEMICAL RESISTANCE CHART \***



	NATURAL RUBBER NR	SBR		CHLOROPRENE CR	NITRILE NBR	BUTYL IIR	hypalon®		EPM	silicone VMQ	viton® FKM	CROSS-LINKED POLYETHYLENE XLPE	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE UHMWPE	teflon® PTFE
		SBR	SBR				CSM	EPDM						
Citric acid	A	A	A	A	B	A	A	A	A	A	A	A	A	A
Coke oven gas	X	X	X	X	X	X	A	I	I	B	A	A	X	A
Copper chloride 150°F (65°C)	C	A	B	A	A	A	B	A	A	A	A	A	A	A
Copper sulfate 150°F (65°C)	C	A	A	A	A	A	A	A	A	A	A	A	A	A
Corn oil	X	C	B	B	A	A	B	C	C	A	A	A	A	A
Cottonseed oil	X	C	B	B	A	A	B	C	C	A	A	A	A	A
Creosote, coal tar	X	X	B	B	A	X	B	X	X	C	A	A	A	A
Creosote, coal tar wood	X	X	B	B	A	X	I	X	X	X	A	A	A	A
Creosols, cresylic acid	C	X	X	X	C	C	B	X	X	I	A	A	B	A
Dichlorobenzene	X	X	X	X	X	X	X	X	X	X	A	X	C	A
Dichloroethylene	X	X	X	X	X	X	X	X	X	X	A	C	X	A
Diesel fuel	X	X	C	A	A	X	B	X	X	X	A	B	B	A
Diethanolamine 20%	C	X	I	I	I	A	X	A	A	X	X	A	A	A
Diethylamine	B	B	B	B	C	B	C	B	B	B	X	A	A	A
Diisopropylamine	B	I	I	I	B	I	C	I	I	I	I	A	A	A
Diocetylphthalate	X	X	X	X	X	B	X	B	A	X	A	A	A	A
Ethers	X	X	X	X	X	X	X	C	B	X	X	A	B	A
Ethyl acetate	X	X	X	X	X	B	X	B	A	B	X	A	A	A
Ethyl alcohol	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Ethyl cellulose	B	B	B	B	B	B	I	B	B	C	X	A	A	A
Ethyl chloride	X	X	X	X	X	B	X	C	C	C	A	A	C	A
Ethyl glycol	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Ferric chloride 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Ferric sulfate 150°F (65°C)	A	A	A	A	A	A	A	A	A	B	A	A	A	A
Formaldehyde	B	B	B	C	C	A	A	A	A	B	X	A	A	A
Formic acid	A	A	C	C	B	A	A	A	A	C	X	A	A	A
Fuel oil	X	X	A	A	A	X	B	X	X	X	A	A	A	A
Furfural	X	C	C	C	X	A	B	C	B	X	X	A	I	A

# POLYMERS CHEMICAL RESISTANCE CHART \*



	NATURAL RUBBER		SBR	CHLOROPRENE	NITRILE	BUTYL	hypalon®	EPDM	EPM	silicone	viton®	CROSS-LINKED POLYETHYLENE	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE	teflon®
	NR	SBR												
Gasoline, unleaded	X	X	X	X	A	X	C	X	X	X	A	A	B	A
Gasoline + MTBE	X	X	X	X	A	X	C	X	X	X	A	A	B	A
Gasoline Hi Test + MTBE	X	X	X	X	A	X	C	X	X	X	A	A	B	A
Gelatin	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Glucose	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Glue	B	B	A	A	A	B	A	A	A	A	A	A	A	A
Glycerine, glycerol	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Green sulfate liquor	A	A	A	A	A	A	A	A	A	A	A	A	A	A
HFC-134A	B	X	A	A	A	A	B	A	A	I	X	A	I	A
Hdraulic fluids: Petroleum	X	X	B	A	A	X	B	X	X	C	A	I	A	A
Hdraulic fluids: Phosphate ester alkyl	X	X	C	X	X	A	X	A	A	X	I	I	I	A
Hdraulic fluids: Phosphate ester aryl	X	X	X	X	X	C	X	C	C	X	I	I	I	A
Hdraulic fluids: Phosphate ester blends	X	X	X	X	X	X	X	C	C	X	A	I	I	A
Hdraulic fluids: Silicate ester	X	X	C	C	C	X	C	X	X	X	A	I	I	A
Hdraulic fluids: Water glycol	A	A	A	A	A	A	A	A	A	A	A	I	A	A
Hydrobromic acid	C	X	C	C	C	A	A	A	A	X	A	I	A	A
Hydrochloric acid	B	B	B	C	C	B	B	B	A	X	A	A	A	A
Hydrocyanic acid	B	B	C	B	B	C	A	C	B	B	A	A	A	A
Hydrofluoric acid	X	X	X	X	X	C	A	B	B	X	X	A	B	A
Hydrofluosilicic acid	A	B	B	B	B	A	I	A	A	I	A	I	A	A
Hydrogen gas	B	A	A	A	A	A	I	A	A	C	A	A	A	A
Hydrogen peroxide	X	X	C	C	C	C	C	C	B	A	A	I	C	A
Hydrogen sulfide, dry	C	C	B	C	C	A	A	A	A	X	X	A	A	A
Hydrogen sulfide, wet	C	C	B	C	C	A	A	A	A	X	X	A	A	A
Isobutyl alcohol	A	A	A	B	B	A	A	A	A	A	A	A	A	A
Isopropyl alcohol	A	A	A	B	B	A	A	A	A	A	A	A	A	A
Isooctane	X	X	B	A	A	X	A	X	X	X	A	A	A	A
Kerosene	X	X	B	A	A	X	C	X	X	X	A	A	A	A

**POLYMERS CHEMICAL RESISTANCE CHART \***



	NATURAL RUBBER		SBR	CHLOROPRENE	NITRILE	BUTYL	hypalon®	EPDM	EPM	silicone	viton®	CROSS-LINKED POLYETHYLENE	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE	teflon®
	NR	SBR												
Lacquers	X	X	X	X	X	C	X	X	X	X	X	A	B	A
Lacquers solvents	X	X	X	X	X	C	X	X	X	X	X	A	B	A
Lactic acid	C	C	C	C	C	C	A	C	B	A	A	A	A	A
Linseed oil	C	C	C	B	A	A	A	A	B	A	A	A	A	A
Lubricating oil, crude	X	X	B	B	A	X	B	X	X	C	A	A	A	A
Lubricating oil, refined	X	X	B	B	A	X	B	X	X	C	A	A	A	A
Magnesium chloride	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Magnesium hydroxide	A	B	B	B	B	A	A	A	A	B	A	A	A	A
Magnesium sulfate	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Mercuric chloride	B	B	C	C	B	A	A	A	A	A	A	A	A	A
Mercury	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Methyl alcohol, methanol	A	A	A	A	A	A	A	A	A	A	B	A	A	A
Methyl chloride	X	X	X	X	X	C	X	X	C	X	B	C	C	A
Methyl ethyl ketone	X	X	X	X	X	B	X	A	A	X	X	A	A	A
Methyl isopropyl ketone	X	X	X	X	X	B	X	C	C	C	X	A	A	A
Milk	A	A	A	A	A	A	A	A	A	A	A	A	A	A
MTBE	I	I	I	I	I	I	I	I	I	I	X	A	I	I
Mineral oils	X	X	B	B	A	X	B	X	X	A	A	A	A	A
Natural gas	C	C	A	A	A	X	A	X	X	C	A	A	A	A
Nickel chloride	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Nickel sulfate	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Nitric acid, crude	X	X	X	X	X	X	C	X	X	X	B	X	I	A
Nitric acid, diluted 10%	X	X	B	B	X	B	A	C	A	C	A	A	A	A
Nitric acid, concentrated 70%	X	X	X	X	X	C	C	X	C	X	B	C	X	A
Nitrobenzene	X	X	X	X	X	X	X	X	X	C	B	A	A	A
Oleic acid	X	X	C	C	C	B	B	B	C	X	B	A	A	A
Oleum	X	C	C	C	C	X	B	X	C	I	A	X	X	A
Oxalic acid	B	C	C	B	B	A	A	A	A	B	A	A	A	A
Oxygen	B	C	A	A	C	A	A	A	A	X	B	A	A	A

# POLYMERS CHEMICAL RESISTANCE CHART \*

	NATURAL RUBBER		SBR	CHLOROPRENE	NITRILE	BUTYL	hypalon®	EPDM	EPM	silicone	viton®	CROSS-LINKED POLYETHYLENE	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE	teflon®
	NR	SBR												
Palmitic acid	X	B	A	A	A	B	B	B	B	X	A	A	A	A
Perchlorethylene	X	X	X	C	C	X	X	X	X	C	A	C	C	A
Petroleum oils and crude 200°F (95°C)	X	X	B	A	A	X	C	X	X	X	B	C	X	A
Phosphoric acid, crude	C	C	C	C	C	C	A	B	A	C	A	A	A	A
Phosphoric acid, pure 45%	C	C	C	C	C	C	A	B	A	C	A	A	A	A
Picric acid, molten	C	C	C	C	C	C	I	I	X	C	A	C	X	A
Picric acid, water solution	A	C	B	B	A	A	A	I	I	I	A	A	A	A
Potassium chlorite	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Potassium cyanide	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Potassium hydroxide	B	B	C	C	X	A	A	A	A	C	X	A	A	A
Potassium sulfate	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Propane	X	X	B	A	A	X	B	X	X	X	A	A	A	A
Sewage	C	C	B	A	A	C	A	C	C	B	A	A	A	A
Soap solution	A	A	B	A	A	A	A	A	A	A	A	A	A	A
Soda ash, sodium carbonate	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium bicarbonate, baking soda	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium bisulfate	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium chloride	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium cyanide	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium hydroxide to 50% at 140°F	B	B	B	B	B	A	B	A	A	A	A	A	A	A
Sodium hypochlorite	X	X	C	C	C	A	B	A	A	B	A	A	C	A
Sodium metaphosphate	A	A	C	A	A	A	B	A	A	A	A	A	A	A
Sodium nitrate	B	B	B	B	B	A	A	A	A	X	A	A	A	A
Sodium perborate	B	B	B	B	B	A	A	A	A	B	A	A	A	A
Sodium peroxide	B	B	B	B	B	A	A	A	A	C	A	A	C	A
Sodium phosphate, monobasic	A	B	B	B	B	A	A	A	A	X	A	A	A	A
Sodium phosphate, dibasic	A	B	B	B	B	A	A	A	A	X	A	A	A	A
Sodium phosphate, tribasic	A	B	B	B	B	A	A	A	A	X	A	A	A	A
Sodium silicate	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium sulfate	A	A	A	A	A	A	A	A	A	A	A	A	A	A

**POLYMERS CHEMICAL RESISTANCE CHART \***

	NATURAL RUBBER		SBR	CHLOROPRENE	NITRILE	BUTYL	hypalon®	EPDM	EPM	silicone	viton®	CROSS-LINKED POLYETHYLENE	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE	teflon®
	NR	SBR												
Sodium sulfide	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium thiosulfate, "hypo"	A	A	A	A	A	A	A	A	A	I	A	A	A	A
Soybean oil	X	C	B	A	A	A	A	A	C	A	A	A	A	A
Stannic chloride	A	A	A	A	A	B	A	B	A	B	A	A	A	A
Steam	X	X	X	X	X	B	X	B	B	I	X	X	X	A
Stearic acid	X	X	C	C	B	B	C	B	A	A	A	A	A	A
Sulfur	X	X	A	A	X	A	A	A	A	B	A	A	A	A
Sulfur chloride	X	X	C	C	C	X	A	X	X	C	A	A	I	A
Sulfur dioxide, dry	C	C	C	C	C	C	A	C	B	B	B	A	A	A
Sulfur trioxide, dry	X	C	C	C	C	C	B	C	B	B	A	X	X	A
Sulfuric acid, 10%	C	C	B	C	C	A	A	A	A	X	A	A	A	A
Sulfuric acid, 11% - 75%	X	X	X	X	X	B	A	C	A	X	A	A	A	A
Sulfuric acid, 76% - 95%	X	X	X	X	X	X	X	C	A	X	A	X	A	A
Sulfuric acid, fuming	C	C	C	C	C	C	A	C	B	X	B	A	A	A
Sulfurous acid														
Tannic acid	A	C	A	C	C	A	A	A	A	B	A	A	A	A
Tar	X	X	C	C	C	X	C	X	X	B	A	X	I	A
Tartaric acid	A	C	C	C	C	B	A	B	B	A	A	A	A	A
Toluene, Toluol	X	X	X	X	X	X	X	X	X	X	A	C	C	A
Trichloroethylene	X	X	X	X	X	X	X	X	X	X	A	C	B	A
Turpentine	X	X	X	B	B	X	X	X	X	X	A	A	B	A
Urea, water solution	A	I	A	A	A	A	A	A	A	A	I	A	A	A
Vinegar	C	C	C	C	C	A	A	A	A	A	A	A	A	A
Vinyl acetate	X	X	X	X	X	A	X	B	A	X	X	I	A	A
Water, acid mine	A	A	B	A	A	A	A	A	A	A	A	A	A	A
Water, fresh	A	A	B	A	A	A	A	A	A	A	A	A	A	A
Water, distilled	A	A	B	A	A	A	A	A	A	A	A	A	A	A
Whiskey and wines	A	A	A	A	A	A	A	A	A	A	A	A	A	A



	NATURAL RUBBER		SBR		CHLOROPRENE		NITRILE		BUTYL		hypalon®		EPDM		EPM		silicone		viton®		CROSS-LINKED POLYETHYLENE		ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE	
	NR	SBR	SBR	SBR	CR	NBR	IIR	CSM	EPDM	EPM	VMQ	FKM	XLPE	UHMWPE	PTFE									
Xylene, xylool	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Zinc chloride	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Zinc sulfate	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

**LEGEND**    **A** GOOD RESISTANCE    **B** FAIR RESISTANCE    **C** POOR RESISTANCE    **X** NOT RECOMMENDED    **I** INSUFFICIENT INFORMATION

\* The present tabulation is based on tests and on generally available sources, and believed to be reliable. However must be used as a guidance only since it does not take in consideration all variable that may be encountered in actual use, such as and not limited to: temperature, concentration pressure, duration of exposure, stability of the fluid and possible contamination  
 All application should always be tested: the compound should always be tested with the chemical it is going to handle  
**Please note:** all data based on 21 °C (70 °F) unless noted

# Guidelines for cleaning and sanitizing food hoses

The cleaning and sanitizing suggestions set forth below are guidelines only.

It is necessary that all applicable government regulations pertaining to the cleaning and sanitizing of the food hoses and food hoses assemblies be followed and adhered to and which governmental regulations supersede the guideline contained herein.

The life of the hose is affected by the cleaning and sanitizing process due to the mechanical and chemical stresses which occur during the cleaning and sanitizing procedure. The service period of rubber hoses is dependent on their formulation and the environment of use which in turn is influenced by the product, process temperature, cleaning and bactericidal compounds and time of exposure. Users should frequently monitor the physical condition of the rubber hose material product contact surfaces. Such observations are necessary to determinate the actual sanitary service period of rubber hoses. It is further recommended that the rubber hose be replaced before surface imperfections or sloughing occurs. Routine replacement schedules should be established and followed.

Food hose users should be guided by their own, if applicable, or specific industry cleaning and sanitizing procedures and standards. For example the wine industry may have different standards than the dairy industry and any standards applicable to a specific industry supersede the guideline contained herein.

The cleaning and sanitizing of food hoses and hose assemblies is intended to remove any food particles or residues including detergents or disinfectant that may be the source of harmful bacteria microorganism or other sources of contamination. The effectiveness of the guidelines contained herein are dependent upon the practices and care taken by the users.

## CLEANING AND SANITIZING STEPS

1. **FREQUENCY** The frequency of the cleaning and sanitizing cycle needs to be done according to the type of food or beverage being conveyed and the contamination risk level. In principle, the cleaning and sanitizing process should be conducted on a frequent basis.

2. **WASHING** Thoroughly washing the hose with hot potable water is the first step in the cleaning process. Washing with hot potable water will facilitate the cleaning of the hose but does not eliminate the need to clean the hose with the appropriate detergent followed by the disinfection of the hose. The temperature of the hot water and duration of the washing/rinsing cycle will depend upon the characteristic of the material/products being conveyed.

The initial washing/rinsing with hot potable water should be completed as soon as possible after the conveyance process is completed. All residual water and residue from the initial washing/rinsing cycle must be drained away completely.

3. **CLEANING/DISINFECTING** The selection of a specific detergent and of a specific disinfectant will depend on the material/products being conveyed. The recommendation of the manufacturer of the detergent and of the disinfectant should be strictly followed especially regarding concentration levels.

After the cleaning of the hose with detergent followed by the rinse of it with potable water, the hose must be sterilized either with steam or with chemical solution.

Steam is classified as "Physical" disinfectants: its effectiveness in eliminating bacteria and other contaminants varies according to the material/products being conveyed and the procedure employed by the users.

Chemical disinfectant such as caustic soda, nitric acid, per-acetic acid, phosphoric acid, chloroacetic acid or other acids suitable for disinfecting food hoses must be carefully selected to ensure optimal effectiveness while also assuring maximum safety and health. When selecting a particular disinfectant it is necessary to pay strict attention to concentration levels, temperature, cycle time, etc. The type of product/material being conveyed be taken into consideration when selecting a specific disinfectant.

As soon as the disinfecting treatment with chemical solutions is made, the hose must be carefully and for a sufficiently long time rinsed with potable water to eliminate any chemical residues from the disinfecting treatment.

4. **PROCESS CONTROLS** The result of the cleaning and sanitizing process must be regularly checked to ensure that all contamination and residuals have been eliminated. Any non conforming events need to be addressed in a corrective action procedure.

	Medium	Hose tube	Concentration	Temperature
<b>RINSING</b>	Hot water	NR / NBR / SILICONE EPDM / IIR / UPE PTFE / PFA	-	Max 90°C
<b>PHYSICAL DISINFECTANT</b>	Steam	NR / NBR	-	Max 110°C Max 10 min
		EPDM / IIR / UPE PTFE / PFA	-	Max 130°C Max 30 min
		SILICONE	-	Max 135°C Max 18 min
<b>CHEMICAL DISINFECTANT</b>	Acid [i.e. Nitric acid]	NR / NBR / SILICONE	0,1%	Max 65°C
			2%	Max 25°C
		EPDM / IIR / UPE PTFE / PFA	0,1%	Max 85°C
			3%	Max 25°C
	Alkaline solution [i.e. Caustic soda]	NR / NBR / SILICONE	2%	Max 65°C
			4%	Max 25°C
		EPDM / IIR / UPE PTFE / PFA	2%	Max 85°C
			5%	Max 25°C
Disinfectant [i.e. Peracetic acid]	NR / NBR / SILICONE	1%	Max 25°C	
	EPDM / IIR / UPE PTFE / PFA		Max 40°C	

The life of the hose is affected by the cleaning and sanitizing process due to the mechanical and chemical stresses which occur during the cleaning and sanitizing procedure.

The service life of rubber hoses is directly dependent on frequency and time of exposure to PHYSICAL and CHEMICAL disinfectants.

Users should frequently monitor the physical condition of the rubber hose material product contact surfaces.

Such observations are necessary to determinate the actual sanitary service period of rubber hoses.

The present tabulation is based on tests and on generally available sources, and believed to be reliable. However must be used as a guidance only since it does not take in consideration all variable that may be encountered in actual use such as and not limited to duration of exposure and stability of the fluid and possible contamination.





## Warning

TUBIGOMMA DEREGIBUS S.R.L. (the Company) has taken care in preparing the contents of this web site and of the enclosed catalogues.

However, the Company cannot be responsible for any inaccuracies , or printing errors which may appear in this web site and in the enclosed catalogues.

The Company reserves the rights to implement changes in product specifications without notice and as may be deemed appropriate by the Company for any technical or commercial reason.

Due to the variety of operating conditions and applications for the hoses described in this web site and in the enclosed catalogues, the user of such hoses, through its own determination is solely responsible for making the final selection of the hose or hoses and for assuring that all performance, safety and warning requirements for the application are fulfilled.

The Company assumes no responsibility for improper use or selection of a specific hose(s) by the ultimate user.

This web site and the enclosed catalogues are a reference guide only.

For recommendations regarding hose selection, storing, use or maintenance of these hoses, please request from the Company the specific manual issued by ASSOGOMMA (Italy) or download it from the web site. For any other information please contact our sales office or local representative.

All Company technical information , drawings and logos contained in this web site and in the enclosed catalogues are the property of the Company, and cannot be copied or reproduced under any circumstances in part or in total , without prior written consent by the Company.

The hose colors and drawings contained in this web site and in the enclosed catalogues are for illustration purposes only.

The actual color and final specification of the hose may vary from the web site and from the enclosed catalogues.

Any abuse, according to the governing law, of the content of this web site and of the enclosed catalogues will result in Company reserving the right to protect such content by appropriate action.







MADE  
IN  
ITALY

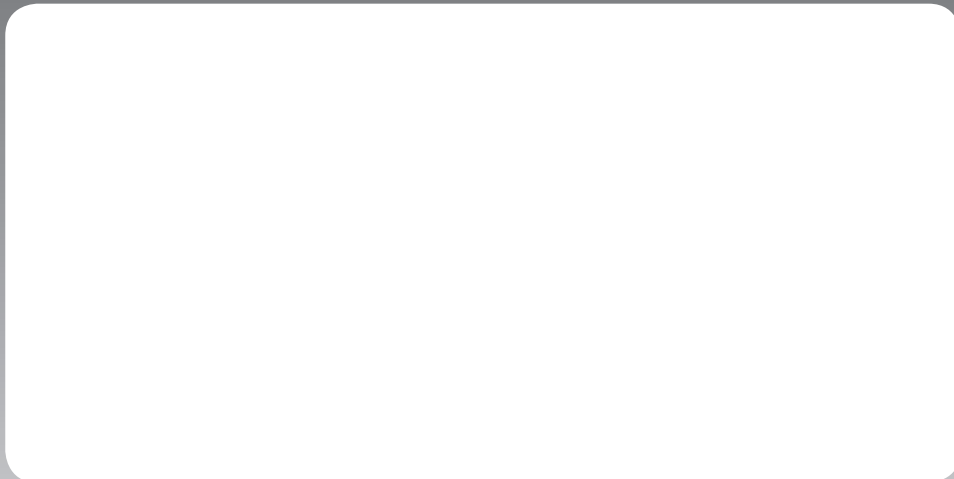


# TUDERTECHNICA

Tubigomma Deregibus srl Società Unipersonale  
Via E. Mattei, 1  
35030 Saccolongo (PD) ITALY  
Registro delle Imprese di Padova  
C.F. e P.IVA 01125090280  
Cap. Soc. 130.000,00 Euro i.v.  
Tel. +39 049 8016155  
Fax +39 049 8015834  
e-mail: [info@tudertecnica.com](mailto:info@tudertecnica.com)



Tudertecnica products are available on a global basis.  
Please contact us and the responsible Tudertecnica person for Your area will respond to Your inquiry.



[www.tudertecnica.com](http://www.tudertecnica.com)



ENG  
06/2014