

flexible rubber

INDUSTRIAL SILICONE HOSES





delivering
safety



MADE IN ITALY

DISCOVER OUR FULL RANGE OF FLEXIBLE HOSES





INDUSTRIAL SILICONE APPLICATIONS

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PVC GRANULES HOSES

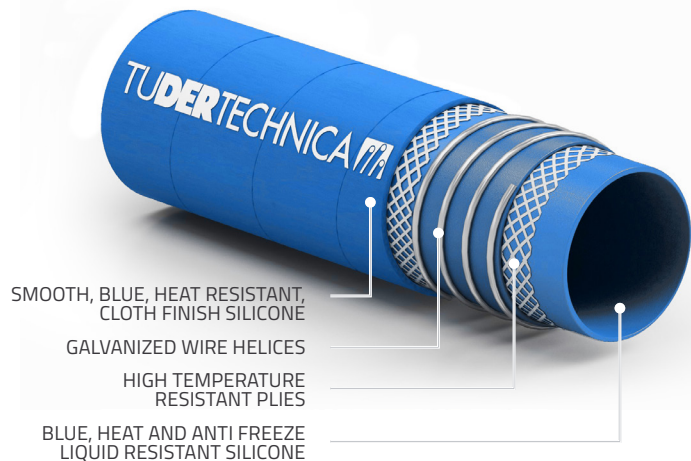
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TUSIL® RAD SD TDD



SMOOTH, BLUE, HEAT RESISTANT, CLOTH FINISH SILICONE

GALVANIZED WIRE HELICES

HIGH TEMPERATURE RESISTANT PLYES

BLUE, HEAT AND ANTI FREEZE LIQUID RESISTANT SILICONE

Flexible hose used for suction and delivery of anti-freeze liquid in the cooling systems.

DESCRIPTION

Tube

silicone, blue, heat and anti-freeze liquid resistant

Reinforcement

high temperature resistant plies, galvanized wire helices

Cover

smooth, silicone, blue, cloth finish. Heat, ageing and ozone resistant

Marking

TUDERTECHNICA TUSIL® RAD SD

TECHNICAL CHARACTERISTICS

Temperature range : -60°C / +200°C (-76°F / +392°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.

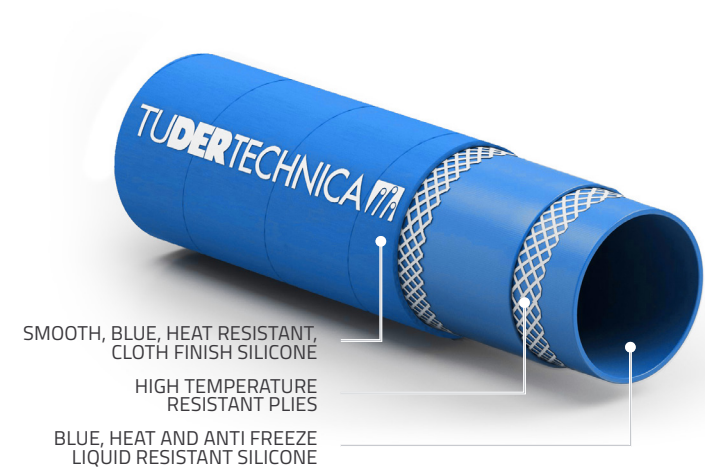
Norm : SAE J20R2 CLASS A; ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
13	0,50	23	0,91	0,9	13	15	225	45	675	0,38	0,25	60	2,36
19	0,75	29	1,14	0,9	13	13	195	39	585	0,49	0,33	80	3,15
25	1,00	35	1,38	0,9	13	10	150	30	450	0,62	0,42	110	4,33
32	1,25	42	1,65	0,9	13	8	120	24	360	0,75	0,50	130	5,12
38	1,50	48,5	1,91	0,9	13	7	105	21	315	0,94	0,63	150	5,91
51	2,00	61,5	2,42	0,9	13	6	90	18	270	1,25	0,84	200	7,87
63,5	2,50	75,5	2,97	0,9	13	5	75	15	225	1,89	1,27	270	10,63
76	3,00	88	3,46	0,9	13	4	60	12	180	2,22	1,49	350	13,78
102	4,00	117	4,61	0,9	13	3	45	9	135	3,71	2,49	500	19,69

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. We reserve the right to supply in random lengths shorter than 40mt or 20mt.

REV-2021-08-05

TUSIL® RAD TDD



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

DESCRIPTION

Tube

silicone, blue, heat and anti-freeze liquid resistant

Reinforcement

high temperature resistant plies

Cover

smooth, silicone, blue, cloth finish. Heat, ageing and ozone resistant

Marking

TUDERTECHNICA TUSIL® RAD

TECHNICAL CHARACTERISTICS

Temperature range : -60°C / +200°C (-76°F / +392°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.

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]	[bar]	[psi]	[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. We reserve the right to supply in random lengths shorter than 40mt or 20mt.

REV-2021-08-05

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°C / +200°C (-76°F / +392°F).

DESCRIPTION

Tube

silicone, green, heat and anti-freeze liquid resistant

Reinforcement

high temperature resistant plies, galvanized wire helix

Cover

square corrugated, silicone, green, cloth finish. Heat, ageing and ozone resistant

Marking

TUDERTECHNICA TUSIL® RADFLEX

TECHNICAL CHARACTERISTICS

Temperature range : -60°C / +200°C (-76°F / +392°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.

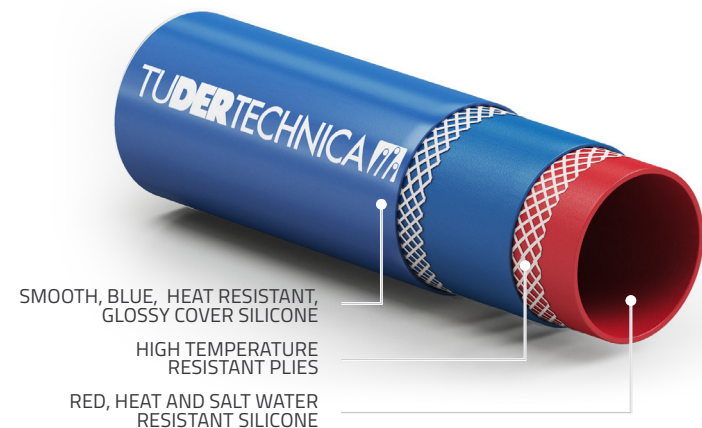
Norm : SAE J20R2 CLASS A; TMC RP303B; ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
13	0,50	23	0,91	0,6	8,5	5	75	15	225	0,31	0,21	30	1,18
16	0,63	26	1,02	0,6	8,5	5	75	15	225	0,37	0,25	40	1,57
19	0,75	29	1,14	0,6	8,5	5	75	15	225	0,42	0,28	50	1,97
25	1,00	35	1,38	0,6	8,5	5	75	15	225	0,53	0,36	65	2,56
32	1,25	43	1,69	0,6	8,5	5	75	15	225	0,79	0,53	85	3,35
38	1,50	49	1,93	0,6	8,5	5	75	15	225	0,92	0,62	105	4,13
51	2,00	64	2,52	0,6	8,5	5	75	15	225	1,48	0,99	150	5,91
63,5	2,50	77,5	3,05	0,6	8,5	5	75	15	225	1,97	1,32	220	8,66
76	3,00	92	3,62	0,6	8,5	5	75	15	225	2,56	1,72	270	10,63
102	4,00	119	4,69	0,6	8,5	5	75	15	225	3,70	2,48	400	15,75

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. We reserve the right to supply in random lengths shorter than 40mt or 20mt.

REV-2021-08-05

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, glossy. Heat, ageing, ozone and paraffin oil resistant

Marking

TUDERTECHNICA TUSIL® MARINE

TECHNICAL CHARACTERISTICS

Temperature range : -60°C / +200°C (-76°F / +392°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.

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. We reserve the right to supply in random lengths shorter than 40mt or 20mt.

TUSIL® MARINE OND



- WIDE- CORRUGATED, BLUE, HEAT RESISTANT, GLOSSY COVER SILICONE
- STEEL WIRE HELICES
- HIGH TEMPERATURE RESISTANT PLYS
- RED, HEAT AND SALT WATER RESISTANT SILICONE

TECHNICAL CHARACTERISTICS

Temperature range : -60°C / +200°C (-76°F / +392°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.

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

DESCRIPTION

Tube

silicone, red, heat and salt water resistant

Reinforcement

high temperature resistant plies, steel wire helices

Cover

wide-corrugated, blue silicone rubber, glossy. Heat, ageing, ozone and paraffin oil resistant

Marking

TUDERTECHNICA TUSIL® MARINE OND

Norm : SAE J2006 TYPE R2; ISO 13363:2004 - Type 2 class B; ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Length		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[mt]	[ft]	[bar]	[psi]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
19	0,75	-	-	40	130	0,6	8,5	8	120	24	360	0,48	0,32	90	3,54
25	1,00	-	-	40	130	0,6	8,5	7	105	21	315	0,60	0,40	100	3,94
28	1,10	-	-	40	130	0,6	8,5	7	105	21	315	0,66	0,44	105	4,13
32	1,25	-	-	40	130	0,6	8,5	6	90	18	270	0,70	0,47	115	4,53
35	1,38	-	-	40	130	0,6	8,5	5	75	15	225	0,80	0,54	125	4,92
38	1,50	-	-	40	130	0,6	8,5	5	75	15	225	0,82	0,55	130	5,12
42	1,65	-	-	40	130	0,6	8,5	5	75	15	225	1,00	0,67	135	5,31
45	1,77	-	-	40	130	0,6	8,5	4	60	12	180	1,06	0,71	140	5,51
48	1,90	-	-	40	130	0,6	8,5	4	60	12	180	1,12	0,75	150	5,91
51	2,00	-	-	40	130	0,6	8,5	4	60	12	180	1,18	0,79	160	6,30
60	2,36	-	-	40	130	0,6	8,5	3	45	9	135	1,36	0,91	165	6,50
63,5	2,50	-	-	40	130	0,6	8,5	3	45	9	135	1,63	1,09	170	6,69
67	2,64	-	-	40	130	0,6	8,5	3	45	9	135	1,70	1,14	175	6,89
70	2,76	-	-	40	130	0,6	8,5	3	45	9	135	1,77	1,19	180	7,09
73	2,87	-	-	40	130	0,6	8,5	3	45	9	135	1,85	1,24	200	7,87
76	3,00	-	-	40	130	0,6	8,5	3	45	9	135	1,92	1,29	220	8,66
90	3,54	-	-	40	130	0,6	8,5	2	30	6	90	3,21	2,15	250	9,84
102	4,00	-	-	40	130	0,6	8,5	2	30	6	90	3,62	2,43	280	11,02
115	4,50	-	-	40	130	0,6	8,5	2	30	6	90	4,02	2,69	290	11,42
127	5,00	-	-	40	130	0,6	8,5	2	30	6	90	4,43	2,97	300	11,81
140	5,51	-	-	12	39	0,6	8,5	2	30	6	90	5,69	3,81	360	14,17
152	6,00	-	-	12	39	0,6	8,5	2	30	6	90	6,04	4,05	400	15,75
203	8,00	-	-	12	39	0,6	8,5	2	30	6	90	10,87	7,28	450	17,72
254	10,00	-	-	12	39	0,6	8,5	2	30	6	90	14,81	9,92	1200	47,24
305	12,00	-	-	12	39	0,6	8,5	2	30	6	90	18,55	12,43	1450	57,09
350	13,78	-	-	12	39	0,6	8,5	2	30	6	90	21,42	14,35	1750	68,90
404	15,91	-	-	12	39	0,6	8,5	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. We reserve the right to supply in random lengths shorter than 40mt or 20mt.

REV-2021-08-05



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, a/s wire to discharge static electricity

Cover

smooth, red, silicone, cloth finish (glossy cover on request). Heat, ageing, ozone and paraffin oil resistant

Marking

TUDERTECHNICA TUSIL® CRYO

TECHNICAL CHARACTERISTICS

Temperature range : -85°C / +200°C (-121°F / +392°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.

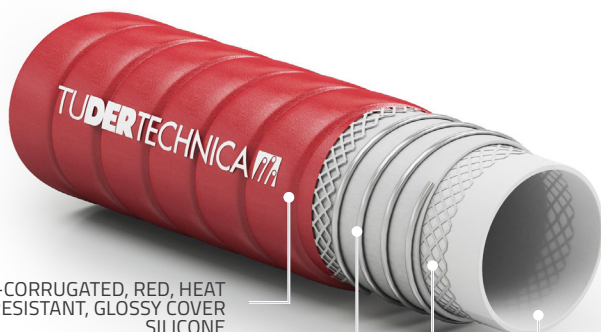
Norm : ISO 1307 for dimensional tolerances

Inside diameter		Outside diameter		Vacuum		Working pressure		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	-	-	16	230	48	690	0,31	0,21	-	-
13	0,51	23	0,91	-	-	15	220	45	660	0,32	0,22	-	-
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. We reserve the right to supply in random lengths shorter than 40mt or 20mt.

REV-2021-08-05

ALISPIR SIL FORM INOX



WIDE-CORRUGATED, RED, HEAT RESISTANT, GLOSSY COVER SILICONE
STAINLESS STEEL WIRE HELICES
HIGH TEMPERATURE RESISTANT PLYS
TRANSLUCENT SILICONE

TECHNICAL CHARACTERISTICS

Temperature range : -60°C / +200°C (-76°F / +392°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.

Norm : ISO 1307 for dimensional tolerances



refer to guidelines for cleaning and sanitizing on Tudertechnica website



3A

Hose for suction and delivery of pre-heated PVC granules, high temperature resistant, used as a connection between hopper and heated barrel. Specifically designed for the process industries where it is necessary for a high-performance hose made with tasteless and odorless compound. Hose tested according to the main norms for food contact materials (FCM – Reg. (CE) 1935/2004). Manufactured according to GMP (Reg. (CE) 2023/2006). 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 21 CFR 177.2600; BfR XV; REGULATION 1935/2004/CE; DM 21/03/1973 and subsequent amendments; Japan Ministry of Health and Welfare Notice No.370,1959, No.201,2006 and revision 2012; 3A Sanitary Standards Number 18-03 Class II.

Reinforcement

high temperature resistant plies, stainless steel wire helices, on request a/s wire to discharge static electricity

Cover

wide-corrugated, red, silicone rubber, glossy. Heat, ageing and ozone resistant

Marking

TUDERTECHNICA ALISPIR SIL FORM

Inside diameter		Outside diameter		Vacuum		Working pressure		Burst pressure		Appr. weight		Bending radius	
[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[bar]	[psi]	[kg/mt]	[lbs/ft]	[mm]	[in]
51	2,00	-	-	0,9	13	6	90	18	270	1,37	0,92	160	6,30
63,5	2,50	-	-	0,9	13	5	75	15	225	2,01	1,35	200	7,87
76	3,00	-	-	0,9	13	4	60	12	180	2,36	1,58	240	9,45
90	3,54	-	-	0,9	13	4	60	12	180	3,23	2,16	300	11,81
102	4,00	-	-	0,9	13	3	45	9	135	3,61	2,42	340	13,39
115	4,50	-	-	0,9	13	3	45	9	135	4,04	2,71	450	17,72
152	6,00	-	-	0,9	13	2	30	6	90	6,25	4,19	650	25,59

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. We reserve the right to supply in random lengths shorter than 40mt or 20mt.

REV-2021-08-05

 **COUPLINGS**



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



TECHNICAL INFORMATION

Our products have been specifically designed for their intended use.

For a correct usage, cleaning and sanitation of TUDERTECHNICA hoses, we invite you to:

- follow the instructions and charts collected in the dedicated booklet;
- contact us at info@tudertechnica.com;
- visit our website www.tudertechnica.com





WARNING

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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.

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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.

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Tubigomma Deregibus srl Società Unipersonale
Via E. Mattei, 1 - 35030 Saccolongo (PD) ITALY
C.F. e P. IVA 01125090280 – R.E.A. 183623 Trib. di Padova n° 20740
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Società Unipersonale

Via E. Mattei, 1 · 35030 Saccolongo (PD) · Italy
Ph. +39 049 8016155 · Fax +39 049 8015834
email info@tudertechnica.com

www.tudertechnica.com



For the US market

TUDER FT USA LLC

Phone: (001) 270-937-9000
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