Composite hoses - chemical



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CHEMSTAR PTFE

Hose for highly aggressive chemicals Inner layer: ECTFE (first film layer) polypropylene (second film layer)

Reinforcement: spiral, polyethylene (fabric layers)

Coating: resistant to abrasion and conditions atmospheric polyester

Operating temp: -30°C to +80°C
-40°C to +100°C (HD version)

Suction-delivery hose designed for the transfer, discharge and loading of highly aggressive chemicals for which the corrosion resistance of polypropylene is insufficient. Inner layer made of ECTFE (fluoropolymer with high chemical resistance). Safety factor 4:1 (HD - Heavy Duty version - 5:1). Hose available in other versions on special request:

- with external black ATEX antistatic coating (according to Directive 94/9/EC),
- with a polyurethane-coated fabric characterised by high abrasion resistance,
- with a PVDF-coated stainless steel inner spiral and a special film inner layer with superior properties over standard PTFE versions (operating temperature: -40°C to +125°C).

Application: Transshipment systems, filling and emptying equipment (UNO), unloading and loading of road and rail tankers, fixed equipment for tanker trucks, industrial installations. HD version - port handling systems (ship-to-shore and ship-to-ship).

Standards: Meets the requirements of EN 13765:2018 (type 2, type 3).

Assembly: Supplied as cables.

Versions available: SG, SS - differing in inner and outer spiral material.

Verification of chemical resistance: table of chemical resistance of ECTFE and spiral material (pre-selection), confirmation of resistance and conditions of use by Tubes International.

index (versions - spiral)		inside diameter [mm]	working pressure [bar]	vacuum [bar]	bend radius [mm]	mass [kg/m]	max. length [m]
SG - stainless steel AISI 316 / galvanised steel	SS - stainless steel AISI 316 / stainless steel AISI 316						
STANDARD DUTY (SD)							
SO-CHEMSTAR-PTFE-SG-038	SO-CHEMSTAR-PTFE-SS-038	38	14	0,7	100	1,04	40
SO-CHEMSTAR-PTFE-SG-050	SO-CHEMSTAR-PTFE-SS-050	50	14	0,7	150	1,56	40
SO-CHEMSTAR-PTFE-SG-065	SO-CHEMSTAR-PTFE-SS-065	65	14	0,7	200	1,87	40
SO-CHEMSTAR-PTFE-SG-075	SO-CHEMSTAR-PTFE-SS-075	75	14	0,7	250	2,23	40
SO-CHEMSTAR-PTFE-SG-100	SO-CHEMSTAR-PTFE-SS-100	100	14	0,7	300	3,62	40
HEAVY DUTY (HD)							
SO-CHEMSTAR-PTFE-SGHD-100	SO-CHEMSTAR-PTFE-SSHD-100	100	16	0,9	400	4,74	40
SO-CHEMSTAR-PTFE-SGHD-150	SO-CHEMSTAR-PTFE-SSHD-150	150	16	0,9	550	10,50	40
SO-CHEMSTAR-PTFE-SGHD-200	SO-CHEMSTAR-PTFE-SSHD-200	200	16	0,9	800	12,85	40
*	*	250	16	0,9	1000	20,96	25

* - on special request





Hose CHEMSTAR PTFE DN75
on both sides with AISI 316 stainless steel ends with 3" BSP male thread. Ends clamped with AISI 304 stainless steel sleeves. On the ends, TW (tankwagen) type MK 3" and VK 3" couplings in AISI 316 stainless steel.