IRONFLEX™ COMP-PTFE

PTFE-lined composite hose for aggressive chemicals, solvents, acids, chlorides and caustics. The PTFE liner resists permeation while layered barrier materials maintain flexibility for chemical transfer.

Construction

Component	Brochure description
Hose types	STS, STC and PST5
Inner wire	316 stainless steel, or polypropylene/PVC-coated 316 stainless steel
Inner lining	PTFE liner with polypropylene fabric, film and polyester barrier layers
Outer wire	Galvanized steel or 304/316 stainless steel
Cover	Abrasion-resistant PVC-impregnated fabric
End fittings	Per application; externally crimped and swaged

Features and operating notes

- Chemical resistance from the PTFE liner and barrier layers
- Lightweight, flexible construction with electrical continuity
- Abrasion, UV and ozone-resistant outer cover
- Vacuum capability; confirm the required vacuum rating for the assembly
- 14 bar (200 psi) working pressure and 4:1 safety factor as listed in the brochure
- −30°C to +100°C (−22°F to +212°F) temperature range

Specifications

Nominal ID	Outside diameter	Working pressure	Minimum burst	Bend radius	Weight	Max length
1 in	37 mm	14 bar / 200 psi	56 bar / 800 psi	200 mm / 8 in	0.52 lb/ft	100 ft
1½ in	51 mm	14 bar / 200 psi	56 bar / 800 psi	200 mm / 8 in	0.75 lb/ft	100 ft

Nominal ID	Outside diameter	Working pressure	Minimum burst	Bend radius	Weight	Max length
2 in	65 mm	14 bar / 200 psi	56 bar / 800 psi	225 mm / 9 in	1.05 lb/ft	100 ft
2½ in	77 mm	14 bar / 200 psi	56 bar / 800 psi	225 mm / 9 in	1.50 lb/ft	100 ft
3 in	90 mm	14 bar / 200 psi	56 bar / 800 psi	350 mm / 14 in	2.02 lb/ft	100 ft
4 in	121 mm	14 bar / 200 psi	56 bar / 800 psi	400 mm / 16 in	3.50 lb/ft	100 ft
6 in	179 mm	14 bar / 200 psi	56 bar / 800 psi	575 mm / 23 in	7.70 lb/ft	100 ft
8 in	233 mm	14 bar / 200 psi	56 bar / 800 psi	800 mm / 32 in	12.00 lb/ft	100 ft
10 in	284 mm	14 bar / 200 psi	56 bar / 800 psi	1000 mm / 40 in	14.90 lb/ft	50 ft
12 in	333 mm	14 bar / 200 psi	56 bar / 800 psi	1200 mm / 48 in	19.40 lb/ft	50 ft

Applications

Chemical processing: Transfer of aggressive chemicals, solvents, acids and caustics.

Refineries and terminals: Chemical transfer, loading and offloading.

Tank farms and industrial sites: Flexible transfer between storage, process and transport connections.

Safety and documentation

The brochure identifies EN 13765:2018 Type 3 and a 4:1 safety factor. Confirm media compatibility, electrical continuity, fitting materials and assembly testing for the quoted configuration.

Source and selection note

The supplied brochure has an editable specification page with part-number rows that do not consistently track nominal sizes. Sizes and performance values are shown here without assigning those part numbers; confirm the current SKU before ordering.

Confirm media, pressure, temperature, vacuum, length, fittings, electrical requirements and current manufacturer documentation before ordering.