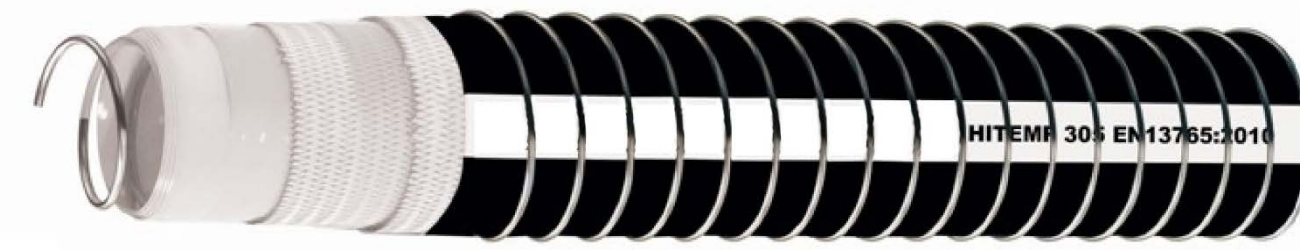
Composite hoses HITEMP 305



HITEMP 305 is a multi-layer thermoplastic hose designed around several fluoropolymer liners, supported by a stainless steel inner wire and reinforced with films and fabrics specifically designed for high temperature applications. All the different layers are wrapped together and tensioned between internal and external wire spirals.

HITEMP 305 utilizes the new PTFE laminate film **NANOTEC®** - the latest and highest level of nanotechnology - to ensure unique mechanical strength and non-porosity. NANOTEC® technology is an exclusive and unique patented design. Key component is a tubular extruded FEP film, preventing any possible leak and guaranteeing the gas-tight construction. Outer cover is made from **ELASTAR**, a special high temperature resistant PU coated fabric offering increased UV-, ozone-, sunlight- and weathering-resistance, as well as superior temperature and abrasion characteristics.
All hoses from 3/4" to 8" are available in 40 m coils and in 25 m length up to 12" diameter.

APPLICATIONS: HITEMP 305 is a hose, specifically designed for the transfer of **hot oils and bitumen** under vacuum or pressures ! **HITEMP 305** hoses are used in various applications as transfer between rail and road tanker, suction or discharge handling from/to storage tanks and general in-plant use. This hose is extremely flexible, easy to handle and bend, regardless, if at very high or very low ambient temperatures. All hoses are 100% aromatic resistant and antistatic ! Vacuum rating is 0,9 bar, according to the EN ISO 7233 method B.
Thanks to the inner PTFE **NANOTEC®** construction, nothing sticks to the inner wall of the hose, and due to absence of inner corrugations or convolutions, (smooth body) nothing will remain trapped in it.

HITEMP 305 hoses can be supplied as **FIRETEC** version to meet the fire resistance criteria acc. to European Standard EN 13765:2010, Annex G, and with self-extinguishing CL1 characteristics.
The special series of **HITEMP 305 FIRETEC** hoses are mainly used for cooling application in the steel industry.
On specific request, we can produce an **electrically discontinuous** (non-conductive) version, in particular for use with induction ovens.
Additional fire resistant films and fabrics result in a good thermal insulation and a low conductivity from the outside to the inside. The special series of COATED FIRETEC hoses additionally is equipped with external heat resistant layers, to withstand the action of eventual splashes of fused metals.
An independent test institute has exposed a **FIRETEC** assembly of 3 m x 6", filled with liquid F acc. ISO 1817, by exposing it to an outer flame. The hose had maintained its structure intact, with no significant alteration.

TEDIMEX GmbH · Talweg 11 · D-21218 Seevetal
phone: +49 4105 690 270 · sales@tedimex.de · www.tedimex.de

The coating can be made in various materials:
HITEMP FIRETEC STD: Black colour self-extinguish CL 1 coating. Additional under layers of glass fabrics and aluminium films act as a heat and fire barrier.
HITEMP FIRETEC GLASS: Outer cover made with glass fabric type E , with good thermal characteristics and fire resistance properties.
HITEMP FIRETEC PIROJACKET: Special outer cover made with red silicone impregnated silica fabric, combines handling properties and extreme temperature resistance.

HITEMP 305 TWINHOSE is a special type of hose designed for the transfer of HIGHLY **viscous** products, at temperatures that can reach 200°C. To improve the durability, reliability and ensure absolute absence of leaks, comprising **a coaxial interlock liner,** made in steel with a smooth inner surface in order to avoid any stagnation of the product once the loading / unloading operations are finished, and to avoid any wire displacement due to the high viscosity of the flowing product.

HITEMP 305 assemblies are fitted with an extensive range of couplings also available PTFE coated or with the new exclusive **EPTAFLON** treatment, externally swaged with stainless steel ferrules. Upon request it is also possible to install electrical insulating fittings with EBONITE coating.
All hose assemblies are tested in accordance with EN ISO 1402. The securing ferrule is permanently engraved with hose data, in compliance with PED Directive (97/23/ CE). The electric resistance of hose assemblies is less than 1Ω/m, as required by EN ISO 8031.
Upon request - for explosive environment - **HITEMP** hoses can be manufactured also with a special outer antistatic black cover and ground connection cable acc. to the Directive 94/9/EC "ATEX". All hoses meet EN, CE, AS, U.S. Coast Guard requirements, NAHAD Guidelines, are Lloyd's and DNV approved.

Code	HITEMP ZZ	HITEMP XZ	HITEMP XX
Applications	High temperature hydrocarbon transfer		
Temperature	-40 +200°C		
Inner wire	galv. steel	st. steel	st. steel
Outer wire	galv. steel	galv. steel	st. steel

Hose type	Colour
HITEMP 305	Black
HITEMP FIRETEC STD	Black
HITEMP FIRETEC GLASS	White
HITEMP FIRETEC PIROJACKET	Red
HITEMP TWINHOSE	Black

Size		Max. W.P.		Safety Factor	Bend Radius EN ISO 1746		Weight	Maximum Length	
mm	Inch	bar	P.S.I.		mm	Inch	kg / m	m	Feet
20	3/4"	15	200	5:1	75	3	0,86	40	132
25	1"	15	200	5:1	100	4	1,23	40	132
32	1 ¼"	15	200	5:1	125	5	1,49	40	132
40	1 ½"	15	200	5:1	140	5 ½	1,77	40	132
50	2"	15	200	5:1	180	7	2,38	40	132
65	2 ½"	15	200	5:1	220	8 ½	3,48	40	132
75/80	3"	15	200	5:1	280	11	4,28	40	132
100	4"	15	200	5:1	400	16	7,05	40	132
150	6"	15	200	5:1	575	23	17,30	40	132
200	8"	15	200	5:1	800	32	24,40	40	132
250	10"	15	200	5:1	1000	40	27,80	25	82
300	12"	15	200	5:1	1200	48	36,70	25	82

Lloyd's Register
Type approved
www.lr.org

Burst pressure indicated is at ambient temperature. Maximum temperature rating can only be maintained when working within limits of working pressure.

We reserve the right to change specification without prior notice !