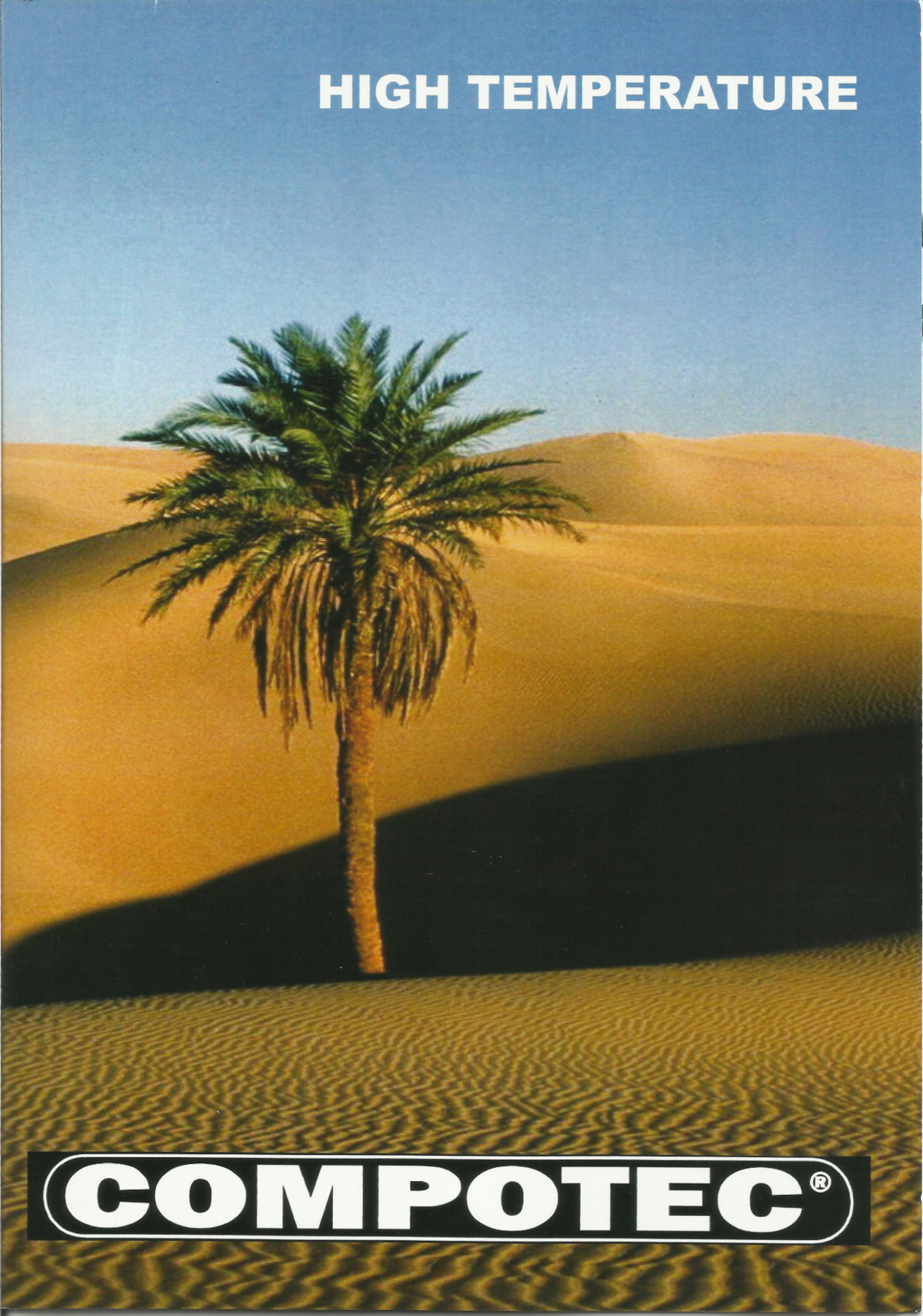
HIGH TEMPERATURE



COMPOTEC®

HITEMP 305 For Extreme Temperatur

CONSTRUCTION: COMPOTEC® HITEMP 305 is a multi-layer thermoplastic hose designed around several Fluoropolymers 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.

COMPOTEC® HITEMP 305 utilizes the new PTFE laminate film **NANOTEC®**, obtained with the latest and highest standard of Nanotechnology, ensuring unique mechanical strength and ZERO porosity, **NANOTEC®** technology is a Patented Design exclusive and unique, belonging to MATEC GROUP. Includes in the construction an FEP tubular extruded film, to avoid any possible leak and guarantee a gas-tight construction. Available in 40 mt coils from 3/4" to 4" and 25 mt length up to 12".

APPLICATIONS: COMPOTEC® HITEMP 305 is specifically designed as an hose for the transfer of **hot oil and bitumen** under positive or negative pressures, **HITEMP 305** hose are used in such applications as transfer for rail and road tanker loading and unloading, storage tank and in-plant use. Extremely flexible, easy to handle and bend, even at very high or very low outdoor temperatures. All hoses are 100% aromatic resistant, antistatic and can be used for suction or discharge. 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.

Lloyd's Register
Type approved
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COMPOTEC® HITEMP 305 hoses can be supplied in the **FIRETEC** version to meet the Fire retardand performance criteria acc. to European Standards EN 13765:2010 Normative, Annex G, and with ADR self-estinguish CL2 characteristics.

The special series of **HITEMP 305 FIRETEC** hoses, are mainly used for **cooling application in the Steel industry**.
On specific request, it is possible to supply hoses electrically discontinuous (non conductive), in particular for the **Induction ovens** in Steel plants.
Additional fire resistant films and fabrics are included in the construction to ensure a good thermal insulation and a low conductivity from the outside to the inside. The special series of **COATED FIRETEC** hoses, have additional external heat resistant layers, to withstand the action of eventual splashes of fused metals. The coating can be made in various materials:

FIRETEC GLASS: Glass fabric type E , with good thermal characteristics
FIRETEC PIROJACKET: a red silicone impregnated silica fabric, combines handling properties and temperature resistance.

COMPOTEC® HITEMP 305 TWINHOSE it's a special type of hose designed for the transfer of **viscous** products, at temperatures that can reach 200° C. To improve the durability, reliability, and ensure absolute absence of leaks, we included a **coaxial interlock liner,** made in steel with a smooth bore structure, in order to avoid any stagnation of the product once the loading / unloading operations are finished.

COMPOTEC® HITEMP 305 assemblies are fitted with an extensive range of couplings also available PTFE tafted or treated, externally swaged with Stainless Steel ferrules.

A 3 mt x 6" assembly of **COMPOTEC® FIRETEC** hose, filled with liquid F of ISO 1817, has been independently tested in an outdoor application, and subjected to direct naked flame. After the test, the hose has maintained its structure intact, with no significant alteration.

COMPOTEC® assemblies are tested in accordance with EN ISO 1402. The securing ferrule is permanently engraved, with hose datas, in compliance with PED Directive (97/23/ CE). Electrical continuity is achieved by the two wires bonded to the end fittings, this helps dissipate accumulated charge and to avoid static flash. The electric resistance of hose assemblies is less than 10 ohms, as required by EN ISO 8031. Upon request it's possibile to manufacture **COMPOTEC®** hoses in accordance to the Directive 94/9/EC **"ATEX"**.

COMPOTEC®

HIGH TEMPERATURE SUCTION & DISCHARGE HOSE EN 13765:2010 TYPE 4

Size		Maximum W.P.		Safety	Bend Radius (ENISO1746)		Weight	Maximum Lenght	
mm	Inch	Bar	P.S.I.	Factor	mm	Inch	Kg. / mt	Mt.	Feet
20	¾"	15	200	5:1	75	3	0,89	40	132
25	1"	15	200	5:1	100	4	1,12	40	132
32	1 ¼"	15	200	5:1	125	5	1,30	40	132
40	1 ½"	15	200	5:1	140	5 1/2	1,50	40	132
50	2"	15	200	5:1	180	7	2,20	40	132
65	2 ½"	15	200	5:1	220	8,5	3,00	40	132
75/80	3"	15	200	5:1	280	11	3,60	40	132
100	4"	15	200	5:1	400	16	5,60	40	132
150	6"	15	200	5:1	575	23	12,70	40	132
200	8"	15	200	5:1	800	32	17,50	40	132
250	10"	15	200	5:1	1000	40	23,20	25	82
300	12"	15	200	5:1	1200	48	32,50	25	82

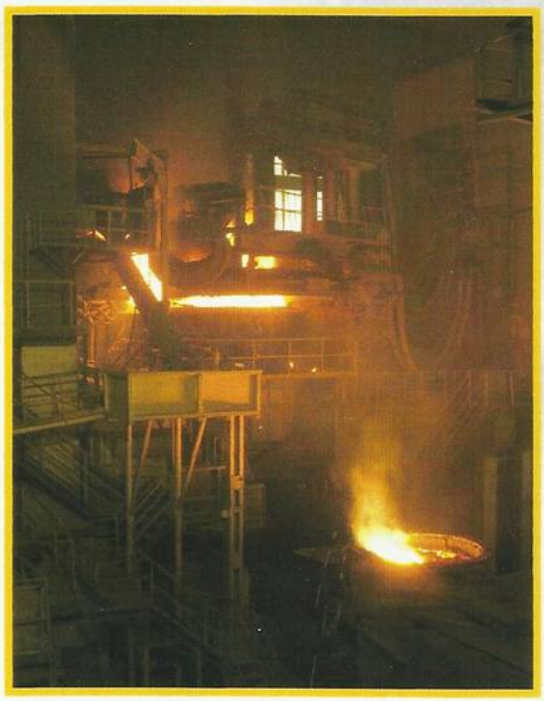
HITEMP 305

Colours	HITEMP 305	Black
	FIRETEC FIREGLASS	White
	FIRETEC PIROJACKET	Red
	HITEMP TWINHOSE	Black

Code	**HITEMP ZZ**	**HITEMP XZ**	**HITEMP XX**
Applications	High Temperature Hydrocarbons		
Temperatures	-40 + 200°C		
Inner wire	Galvanised Steel	Stainless Steel	Stainless Steel
Outer wire	Galvanised Steel	Galvanised Steel	Stainless Steel

HITEMP TWINHOSE

FIRETEC PIROJACKET



DNV Det Norske Veritas Cert. n. CERT-04193-99-AQ IND-SINCERT
EN 13765:2010, approved from CEN
Directive 97/23/CE "PED" with operating Procedures certified from DNV - CE PED 07.0056.06/2585
Directive 94/9/CE "ATEX" hose for explosive atmospheres, Cert. held by DNV Rec. nr. CE ATE 08.0117.06/2617 - (AS 2430.1-1987)
BS 5842:1980 (Conf. 1986)
BS 3492:1987
AS 2683-2000 (Hose & hose assemblies for distribution of petroleum and petroleum products)
AS 2117-1991 (Hose & hose assemblies for petroleum and petroleum products - Marine suction and discharge)
NAHAD Guidelines (NAHAD 600/2005)

Test procedures:

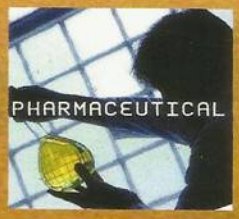
BS 5173-102.10:1990 section 102.10 - (EN ISO 1402)
AS1180.5-1999 (method 5)
AS 1180.13B (Electrical resistance)
AS1180.13C (Electrical continuity)

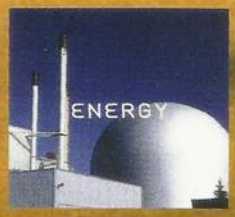
Type Approval

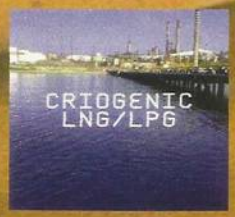
Lloyd's Register Type Approved - Cert. N° 13/00002
DNV - Det Norske Veritas - Type Approval Cert. N° P-12369
RINA - Registro Italiano Navale - Cert. N° MAC/81398/1/TO/99
Russian Maritime Register of Shipping
IBC Code Chapter 5 - Ship's Cargo hoses
IMO Chemical Carrier Code - Paragraphs 2:12 and 5:7

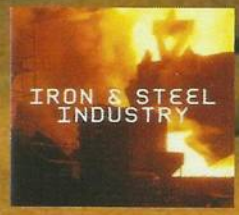
Welding Process

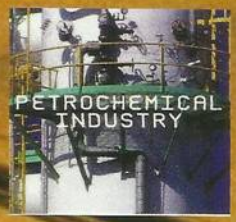
in according to EN 15608:2005 - EN 439:1996 - EN 15614-1:2005 - EN 6848:2005 - EN 12072:2001 certified by DNV - Det Norske Veritas
in according to ASME IX certified by RINA

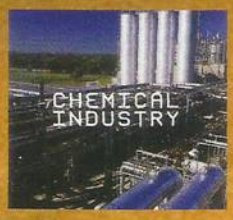












CE

Ex

NAHAD
Composite Hose
Listed Provider

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Type approved
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CERTIFIED QUALITY MANAGEMENT SYSTEM
ISO 9001:2008
SINCERT
DNV

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