PTFE

The superior chemically inert quality of Fluoropolymers, make HDS PTFE hoses ideals for the transfer of a wide range of very hazardous chemicals. This universal hose can help eliminate the costly redundancy of inventory to maintain the various hose constructions usually required. HDS PTFE assemblies are fitted with an extensive range of couplings that can also be PTFE tafted or treated with the exclusive BLUE coating, resistant to almost all chemicals. HDS PTFE hoses can be supplied in the FIRETECH version with ADR self-estinguish CL1 cover.
All **HDS EN13765** hoses are available in 40 mt coils from 3/4" to 8" and 25 mt length up to 12". Outer cover is also available in a special PU coated fabric; its UV, Ozone, Sunlight and weathering resistance, offers superior temperature and abrasion characteristics.
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 1 ohm/mt, as required by EN ISO 8031:2009 - 4.7. Upon request it's possible to manufacture HDS PTFE hoses in accordance to the Directive 94/9/EC "ATEX", with a special outer antistatic black cover.
All HDS PTFE hoses are 100% Antistatic - Electrically continuous, meets the PED, EN, CE, AS, U.S. Coast Guard requirements, NAHAD Guidelines, are Lloyds approved and ATEX certificate can be released on request.

Heavy Duty PTFE hoses is offered in two versions, the first using as inner layer in contact with the product, a pure Skived film of PTFE (See 300-s and 900- S data sheet), the second is manufactured around the new patented cross-laminated Teflon film.

PTFE 300-N

(Patent Design)
Applications: PTFE 300-N, Heavy Duty construction for aggressive chemicals Suction & Delivery. Used for Ship to Shore and Ship to Ship, Dockside and in general for the most arduous Industrial and Marine applications.
Construction: 300-N is a multi-layer thermoplastic hose designed to resist to the most aggressive chemicals. Includes in the construction an **FEP** tubular extruded film to avoid any possible leak and guarantee a gas-tight construction. All the different layers are wrapped together and tensioned between internal and external wire spirals.

The patented cross-laminated PTFE inner is obtained with the latest and highest standard of Nanotechnology, ensuring unique mechanical strength and ZERO porosity. It offers a flexible, tear resistant material with superior capabilities compared to other PTFE products . Made of 100% **TEFLON® by Du Pont**, making it impervious to "chemical attack" and eliminating the need for reinforcements. Regardless of the chemical environment it retains all of its physical properties. Using an innovative nanotechnology cross-lamination process, results in an incredible 360° tear strength, superb durability and operating temps of up to 316°C (600°F)
This technology is PATENTED, exclusive and unique.

PTFE 900-N

(Patent Design)
Applications: 900-N is a specific hose designed for very aggressive chemicals. It is used in such applications as transfer of all the Chlorine derivatives, Hydrochloric acid, Nitric and Sulphuric acid. Heavy Duty construction, can be used in general for the most arduous Industrial and Marine applications.
Construction: Inner first layer in contact with the wet parts, is made with the unique Cross-laminated PTFE film, ensuring the highest mechanical strength, ZERO porosity and superior chemical inertness. Internal wire is made in Stan-less Steel 1.4307, sheathed in a white PVDF high wall thickness material. Includes in the construction an **FEP** seamless tubular extruded film, to avoid any possible leak and guarantee a gas-tight construction.

HDS Hoses Australia

HEAVY DUTY PTFE SUCTION & DISCHARGE HOSE EN 13765:2010 TYPE 3
PTFE Heavy Duty 300-N

Size		Maximum W.P.		Safety	Bend Radius		Weight	Maximum Length	
mm	inch	Bar	P.S.I.	factor	mm	inch	kg/m	Mt.	Feet
20	3/4	15	200	5:1	75	3	0.63	40	132
25	1	15	200	5:1	100	4	0.77	40	132
32	1 1/4	15	200	5:1	125	5	1.05	40	132
40	1 1/2	15	200	5:1	140	5.6	1.33	40	132
50	2	15	200	5:1	180	7.2	2.04	40	132
65	2 1/2	15	200	5:1	220	8.8	2.75	40	132
75/80	3	15	200	5:1	280	11.2	3.15	40	132
100	4	15	200	5:1	400	16	4.74	40	132
150	6	15	200	5:1	550	22	10.5	40	132
200	8	15	200	5:1	800	32	12.85	40	132
250	10	15	200	5:1	1000	40	20.96	25	82
300	12	15	200	5:1	1200	48	31.69	25	82

Code	300-N XZ		300-N XX
Applications	Heavy Duty aggressive chemicals liquid transfer		
Colour	Red		
Temperature	-40 +125°C		
Inner Wire	Stainless Steel		Stainless Steel
Outer Wire	Galvanized Steel		Stainless Steel

HIGHLY AGGRESSIVE / HEAVY DUTY SUCTION & DISCHARGE HOSE EN 13765:2010 TYPE 3
PTFE Heavy Duty 900-N

Size		Maximum W.P.		Safety	Bend Radius		Weight	Maximum Length	
mm	inch	Bar	P.S.I.	factor	mm	inch	kg/m	Mt.	Feet
20	3/4	20	300	5:1	75	3	0.63	40	132
25	1	20	300	5:1	100	4	0.77	40	132
32	1 1/4	20	300	5:1	125	5	1.05	40	132
40	1 1/2	20	300	5:1	140	5.6	1.33	40	132
50	2	20	300	5:1	180	7.2	2.04	40	132
65	2 1/2	20	300	5:1	220	8.8	2.75	40	132
75/80	3	20	300	5:1	280	11.2	3.15	40	132
100	4	20	300	5:1	400	16	4.74	40	132
150	6	20	300	5:1	575	23	10.5	40	132
200	8	20	300	5:1	800	32	12.85	40	132
250	10	20	300	5:1	1000	40	20.96	25	82
300	12	20	300	5:1	1200	48	31.69	25	82

Code	900-N FX		900-N FP
Applications	Highly aggressive chemical transfer		
Colour	Yellow/Purple		
Temperature	-40 +125°C		
Inner Wire	PVDF Coated Stainless Steel		
Outer Wire	Stainless Steel		PP Coated Steel

GlobalGROUP ISO 9001 0039 — UKAS MANAGEMENT SYSTEMS
Certificate No.: 73Q14710

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Quality Certificates
EN 13765:2010, approved from CEN
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)
AS1180.5-1999 (method 5)
AS 1180.13B (Electrical resistance)
AS1180.13C (Electrical continuity)
Type Approval
Lloyd's Register Type Approved
RINA - Registro Italiano Navale
Russian Maritime Register of Shipping

Welding Process
in according to EN 15608:2005 - EN 439:1996 - EN 15614-1:2005 - EN 6848:2005 - EN 12072:2001 and to ASME IX