

**FOOD**



**COMPOTEC®**

# FOOD 500

**COMPOTEC® FOOD 500** is a multi-layer thermoplastic hose designed around several Ultra High Molecular Weight Polyethylene (UHMW PLT) liners, supported by 316 L Stainless Steel inner and outer wires, with a weather-proof and abrasion resistant outer cover made of Polymeric coated Polyester fabric. Outer cover is also available in a special ELASTAR, a special PU coated fabric with extra UV, Ozone, Sunlight and weathering resistance, offering superior temperature and abrasion characteristics.

Extremely flexible, easy to handle and bend, **FOOD 500** hose complies with **FDA TITLE 21** Item 177.1520 and **D.M. 26.04.93** n° 220, for all the application in direct contact with food.

During all the phases of production, the hose is controlled in an high purity process of manufacture. No oils or lubricants are used during the process to avoid any possible contamination

With its Heavy Duty construction, includes in the construction an High Density PLT seamless 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.

It is possible to clean **FOOD 500** with loose steam or with various chemicals (diluted caustic soda and nitric) without any problem. All hoses are 100% anti-static and can be used for suction or discharge. Vacuum rating is 0,9 bar, according to the EN ISO 7233 method B.

**COMPOTEC® FOOD 500** assemblies are fitted with an extensive range of couplings readily available, including sanitary type fittings, DIN, SMS, RYT or Tri-Clamp, externally swaged with Stainless Steel ferrules.

**COMPOTEC® FOOD 500** Specifically designed as a universal hose for the transfer of a wide variety of liquid or dry food products under suction or pressure. **FOOD 500** hoses are used in such applications as transfer for rail and road tankers, loading and unloading, storage tank and in-plant use. Particularly recommended in all the edible oils transfer, including Palm, Coconut, Sunflower, seeds or olive oils. It is widely used as well for edible or pure alcohol, isopropyl, ethyl, methyl or alcoholic spirits.

**COMPOTEC® ABRAFOOD PU** has been designed for the transfer of all abrasive Foodstuffs, both liquids or powders or granulates. Thanks to the high thickness of its **FOOD GRADE POLYURETHANE** layers, and the Heavy Duty construction, it is successfully used for the transfer of sugar, cereals, flours, and in general all abrasive alimentary products. **COMPOTEC® ABRAFOOD PU** includes in the construction an High Density PLT seamless 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. 100% Antistatic construction.

**COMPOTEC® FOODFLON** It's been engineered and designed for all the application where Food compatibility needs to be combined with Chemical resistance, Teflon inertness, and where higher temperatures are involved.

**FOODFLON** hose uses as a first layer the new patented **NANOTEC®** PTFE film, having an incredible 360° tear strength, superb durability and operating temps of up to 316°C/600°F.

**COMPOTEC® FOODFLON** can be easily cleaned with any type of chemical product and with pressurized Steam

**COMPOTEC® FOOD 500** assemblies are tested at 1 ½ times rated working pressures for safety and reliability, in accordance with EN ISO 1402. The ferrule, is permanently embossed, with manufacturer's name, nominal bore, the serial number and the last test date of the hose assembly. Full test certification can be supplied on request.

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 possible to manufacture **FOOD 500** hoses in accordance to the Directive 94/9/EC "ATEX", with a special outer antistatic cover.





**COMPOTEC®**

**FOOD 500 EN13765:2010**

**HEAVY DUTY SUCTION & DISCHARGE HOSE EN 13765:2010 TYPE 3**

Size		Maximum W.P.		Safety	Bend Radius (ENISO1746)		Weight		Maximum Length	
mm	Inch	Bar	P.S.I.	Factor	mm	Inch	Kg. / mt	Mt.	Feet	
20	¾"	15	200	5:1	75	3	0,85	40	132	
25	1"	15	200	5:1	100	4	0,98	40	132	
32	1 ¼"	15	200	5:1	125	5	1,31	40	132	
40	1 ½"	15	200	5:1	140	5 1/2	1,53	40	132	
50	2"	15	200	5:1	180	7	2,21	40	132	
65	2 ½"	15	200	5:1	220	8,5	3,22	40	132	
75/80	3"	15	200	5:1	280	11	3,73	40	132	
100	4"	15	200	5:1	400	16	5,42	40	132	
150	6"	15	200	5:1	575	23	11,72	40	132	
200	8"	15	200	5:1	800	32	16,47	40	132	
250	10"	15	200	5:1	1000	40	24,36	25	82	
300	12"	15	200	5:1	1200	48	33,20	25	82	

**FOOD 500  
UHMW INSIDE**

Code	FOOD 500 XZ	FOOD 500 XX
Applications	Liquid Foodstuff	
Colour	Light Blue	
Temperatures	-40 + 100°C	
Inner wire	Stainless Steel	Stainless Steel
Outer wire	Galvanised Steel	Stainless Steel

**HEAVY DUTY PU HOSE EN 13765:2010 TYPE 3**

Size		Maximum W.P.		Safety	Bend Radius (ENISO1746)		Weight		Maximum Length	
mm	Inch	Bar	P.S.I.	Factor	mm	Inch	Kg. / mt	Mt.	Feet	
20	¾"	15	200	5:1	75	3	0,93	40	132	
25	1"	15	200	5:1	100	4	1,20	40	132	
32	1 ¼"	15	200	5:1	125	5	1,51	40	132	
40	1 ½"	15	200	5:1	140	5 1/2	1,77	40	132	
50	2"	15	200	5:1	180	7	2,51	40	132	
65	2 ½"	15	200	5:1	220	8,5	3,51	40	132	
75/80	3"	15	200	5:1	280	11	4,14	40	132	
100	4"	15	200	5:1	400	16	5,99	40	132	
150	6"	15	200	5:1	575	23	12,97	40	132	
200	8"	15	200	5:1	800	32	17,95	40	132	
250	10"	15	200	5:1	1000	40	25,88	25	82	
300	12"	15	200	5:1	1200	48	35,50	25	82	

**ABRAFOOD PU  
POLYURETHANE INSIDE**

Code	ABRAFOOD XZ	ABRAFOOD XX
Applications	Foodstuff in powder or granulate form	
Colour	Light Blue	
Temperatures	-40 + 100°C	
Inner wire	Stainless Steel	Stainless Steel
Outer wire	Galvanised Steel	Stainless Steel

**HEAVY DUTY PTFE HOSE EN 13765:2010 TYPE 3**

Size		Maximum W.P.		Safety	Bend Radius (ENISO1746)		Weight		Maximum Length	
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	1,45	40	132	
40	1 ½"	15	200	5:1	140	5 1/2	1,69	40	132	
50	2"	15	200	5:1	180	7	2,40	40	132	
65	2 ½"	15	200	5:1	220	8,5	3,36	40	132	
75/80	3"	15	200	5:1	280	11	3,96	40	132	
100	4"	15	200	5:1	400	16	5,73	40	132	
150	6"	15	200	5:1	575	23	12,41	40	132	
200	8"	15	200	5:1	800	32	17,18	40	132	
250	10"	15	200	5:1	1000	40	24,77	25	82	
300	12"	15	200	5:1	1200	48	33,97	25	82	

**FOODFLON  
NANOTEC INSIDE**

Code	FOODFLON XZ	FOODFLON XX
Applications	Liquid Foodstuff	
Colour	Light Blue	
Temperatures	-40 + 120°C	
Inner wire	Stainless Steel	Stainless Steel
Outer wire	Galvanised Steel	Stainless Steel

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:**

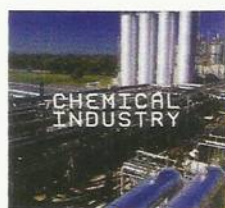
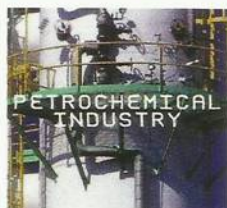
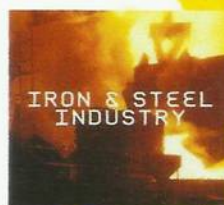
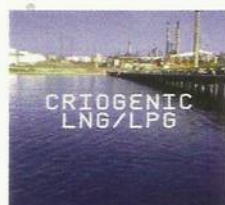
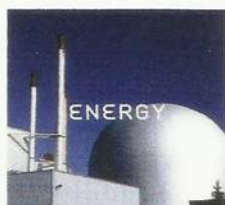
BS 5173-102.10:1990 section 102.10 - (EN ISO 1402)  
AS1180.5-1999 (method 5)  
AS 1180.13B (Electrical resistance)  
AS1180.13C (Electrical continuity)

**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



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