

ABRATEC

COMPOTEC® ABRATEC 400 is a multi-layer thermoplastic hose designed around several **POLYURETHANE** liners, supported by a special abrasion resistant Martensitic High Chrome Stainless Steel inner wire, with a weather-proof and abrasion resistant outer cover made of Polymeric coated Polyester fabric. Outer cover is also available in **ELASTOTHANE**®, a special PU coated fabric; its UV, Ozone, Sunlight and weathering resistance, offers superior temperature and abrasion characteristics.

All the different layers are wrapped together and tensioned between internal and external wire spirals.

Specifically designed as a universal hose for suction and discharge of a wide variety of abrasive products, both liquid, as industrial sludges, or solids, as powders, cereals, plastic granules, chips, sugar, flour under suction or pressure.

COMPOTEC® ABRATEC 400 hoses are used in such applications as transfer for rail and road tanker loading and unloading, storage tanks, silos and in-plant use. Extremely flexible, easy to handle and bend.

Commonly used for the transfer of **COAL WATER SLURRY FUEL (CWS or CWSF)**, the new type of fuel which consist of fine particles of coal suspended in water.

The main advantage of this new type of fuel, is that permits to use coal equivalent to use liquid fuel or heating oil, but reduce the emission in the atmosphere of harmful emissions; in addition, by converting the coal into a liquid form, delivery and dispensing of the fuel can be simplified.

It is normally consisting of 55 to 70% of coal particles and 30 to 45% of water.

It can be used in place of oil and gas in heating and Power station.

The particles to be efficient typically need to be less than 20 micrometres in diameter. This means that the CWS is particularly abrasive and the a special Composite hose is necessary to guarantee the right performances.

COMPOTEC® ABRATEC 400 is manufactured according to the requirement specified by the European Standards EN 13765:2010 Type 3, and in accordance with the recommendations of NAHAD Guidelines (NAHAD 600/2005).

COMPOTEC® ABRATEC 400 hoses are **100% antistatic** and can be used for suction or discharge.

Electrical continuity is achieved by the two wires bonded to the end fittings, this helps dissipate accumulated charge and to avoid static flash.

Upon request it's possible to manufacture ABRATEC 400 hoses in accordance to the Directive **94/9/EC "ATEX"**, with a special outer antistatic black cover and ground connection.

COMPOTEC® ABRATEC 400 assemblies are fitted with an extensive range of couplings readily available, externally swaged with Stainless, Galvanized Steel or Aluminium ferrules.

COMPOTEC® ABRATEC 400 assemblies are tested at 1 ½ times rated working pressures for safety and reliability, in accordance with EN ISO 1402. The securing ferrule, at one end of the hose, is permanently marked by engraving, with manufacturer's name, nominal bore, serial number and the test date. Full test certification including Electrical continuity test, can be supplied on request.

Burst pressure indicated, is at ambient temperature when tested in accordance with EN ISO 1402 (BS 5173 section 102.10:1990).

COMPOTEC®



HEAVY DUTY ABRASION RESISTANT SUCTION & DISCHARGE HOSE EN 13765:2015 TYPE 3

Size		Working Pressure Bar		Bend Radius EN ISO 1746	Weight	Maximum length
mm	inch	SF 4:1	SF 5:1	mm	Kg/mt	Mt
20	3/4"	20	16	75	0,78	40
25	1"	20	16	100	0,96	40
32	1 1/4"	20	16	125	1,28	40
40	1 1/2"	20	16	140	1,50	40
50	2"	20	16	180	2,19	40
65	2 1/2"	20	16	220	3,13	40
75/80	3"	20	16	180	3,80	40
100	4"	20	16	400	5,29	40
125	5"	20	16	484	8,60	40
150	6"	20	16	575	12,21	40
200	8"	20	16	800	17,14	40
250	10"	20	16	1000	24,92	25
300	12"	20	16	1200	33,82	25

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Code	ABRATEC XZ	ABRATEC XX
Applications	ABRASION RESISTANT HOSE	
Colour	Yellow	
Temperature	-40 +100°C	
Inner wire	AISI 400 Series St.Steel	AISI 400 Series St.Steel
Outer wire	Galv.Steel	St.Steel

