

## Airduc® PUR 356 reinforced


**APPLICATIONS**

Universal and abrasion-proof suction and transport hose, especially suitable:

- For high flow-rates of extremely abrasive solids such as sand, gravel, grain, refuse glass and chips
- For gaseous and liquid media
- For silo vehicles
- As conveying hose in glassworks, docks, steelworks, quarries, shipyards, cementworks etc
- As robust protection conduit

**PROPERTIES**

- Super-heavy and reinforced model
- Extremely abrasion-proof with reinforcement underneath wire and narrow hose pitch (abrasion resistance about 2.5 to 5 times better than most rubber materials and about 3 to 4 times better than most soft PVC's)
- Smooth interior
- Optimized flow properties
- Flexible with low weight
- Very high pressure, vacuum and compression resistance
- High axial strength
- High tensile strength and tear resistant
- Food quality wall complies with: FDA 21 CFR 177.2600 and 178.2010, EC guideline 2002/72/EC incl. the latest amendment 2007/19/EC. German guideline XXXIX BfR polyurethane (see chapt. 14.5)
- Microbe and hydrolysis resistant
- Good resistance to chemicals (refer to section 14.1)
- Good resistance to UV and ozone (see chapt. 14.8)
- Very good low temperature flexibility (better than comparable ester-polyurethanes)
- Small bending radius
- Kink-proof
- Free of softener and halogen
- Gas and liquid tight
- Vacuum-proof
- According to TRBS 2153 (formerly BGR 132): capable of electro-static discharge by grounding the spiral, recommended for many applications with the exception of inflammable bulk materials

**MATERIAL**

- Wall: special premium ether-polyurethane
- Spiral: spring steel wire

**TEMPERATURE RANGE**

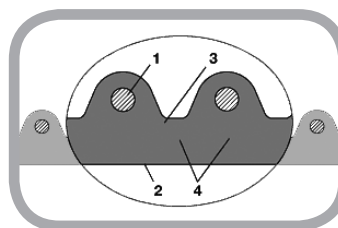
- -40°C approx to +90°C approx
- Short time to +125°C approx

**COLOUR**

- Transparent

**CONSTRUCTION**

- 1 Spring steel wire firmly embedded in wall
- 2 Profile with optimized flow properties
- 3 Wall thickness 3.0 - 3.5 mm approx.
- 4 Reinforcement of the primary abrasion areas according to TRBS 2153 antistatic wall: electrical and surface resistance  $< 10^9 \Omega$  due to permanently antistatic material without migration



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I.D	O.D	Recommended Operating Limits		Bending Radius (middle of hose)	Weight	Further Production Lengths	Stock Lengths	Part Number
		Overpressure bar	Vacuum bar					
mm	mm	bar	bar	mm	kg/m	mm	mm	
50	67	4.01	1	214	1.49		10	356-0050-5100
60	77	3.465	1	246	1.76		10	356-0060-5100
65	82	3.2	1	262	1.89		10	356-0065-5100
75	92	2.795	1	294	2.04	10		356-0075-5100
80	97	2.62	1	310	2.3		10	356-0080-5100
100	117	2.1	1	374	3.2	10		356-0100-5100
102	119	2.07	1	381	3.26		10	356-0102-5100
125	142	1.695	0.93	454	3.95	10		356-0125-5100
127	144	1.66	0.93	461	4.01		10	356-0127-5100
150	167	1.41	0.9	534	5.05	10		356-0150-5100

Further diameters and lengths available on request. All stated data are approx. figures based on a temperature of 20 °C.  
Engineering modifications subject to change. Please refer to technical index