

## Airduc® PUR 356 MHF



### APPLICATIONS

- 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 public utility street cleaning vehicles
  - For lawnmowers, grass sweeping machines and leaves exhaust
  - For fodder transport

### PROPERTIES

- Super-heavy 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)
- Approval according to EC guideline 2002/72/EC incl. the latest amendment 2007/19/EC for the complete hose by independent institute (see chapt. 14.5)
- Microbe and hydrolysis resistant
- Good resistance to mineral oils and gasoline
- 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
- Conform to RoHS guideline
- 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

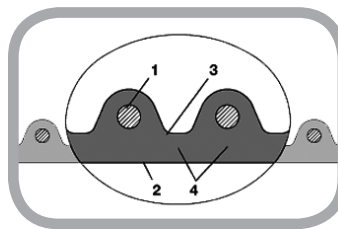
- -40°C approx to +90°C approx
- Short time to +125°C approx

### COLOUR

- Transparent

### CONSTRUCTION

- 1 Spring steel wire firmly embedded in wall
- 2 Profile with optimized flow properties
- 3 Wall thickness 2.0 - 2.5 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	
32	43	4.895	1	116	0.68	15	10	356-0032-1001
38	49	4.16	1	132	0.79	15	10	356-0038-1001
40	51	3.96	1	138	0.82	15 20	10	356-0040-1001
45	56	3.545	1	151	0.91	10 15 20		356-0045-1001
50	61	3.425	1	165	1	15 20	10	356-0050-1001
55	66	3.25	1	178	1.09	10 15 20		356-0055-1001
60	71	2.995	1	192	1.18	15 20	10	356-0060-1001
65	76	2.765	1	205	1.27	15 20	10	356-0065-1001
70	82	2.575	1	221	1.37	15	10	356-0070-1001
75	87	2.415	1	235	1.46	10 15		356-0075-1001
80	92	2.26	1	249	1.55	15	10	356-0080-1001
90	103	2.015	0.9	309	2.06	10 15		356-0090-1001
100	113	1.815	0.9	339	2.27	15	10	356-0100-1001
102	115	1.785	0.9	345	2.31	10 15		356-0102-1001
110	123	1.655	0.885	369	2.48	10 15		356-0110-1001
115	128	1.585	0.865	384	2.58	10 15		356-0115-1001
120	133	1.52	0.84	399	2.69	10 15		356-0120-1001
125	138	1.465	0.81	414	2.8	15	10	356-0125-1001
127	140	1.435	0.8	420	2.84	10 15		356-0127-1001
130	143	1.405	0.78	429	2.9	10 15		356-0130-1001
140	153	1.305	0.755	459	3.11	10 15		356-0140-1001
150	163	1.215	0.755	489	3.68	15	10	356-0150-1001
152	165	1.205	0.75	495	3.72	10 15		356-0152-1001
160	173	1.15	0.725	519	3.91	10 15		356-0160-1001
170	183	1.08	0.7	640	4.15	10 15		356-0170-1001
175	188	1.05	0.68	658	4.26	10 15		356-0175-1001
180	193	1.015	0.665	676	4.38	10 15		356-0180-1001
200	214	0.92	0.595	835	4.86	10 15		356-0200-1001
225	239	0.815	0.51	932	5.45	10		356-0225-1001
250	264	0.74	0.365	1450	7.35	10		356-0250-1001
275	289	0.67	0.25	1590	8.07	10		356-0275-1001
300	314	0.62	0.195	1725	8.78	10		356-0300-1001

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