



### APPLICATIONS

Abrasion-proof and electrically conductive suction and transport hose, especially suitable:

- In areas liable to contain explosive mixtures (explosion protection)
- 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

### PROPERTIES

- Volume and surface resistance  $< 10^3 \Omega$
- According to TRBS 2153 electrically conductive wall: electrical and surface resistance  $< 10^3 \Omega$ , recommended for conveying of inflammable bulk materials
- 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
- 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)
- Small bending radius
- Kink-proof
- Free of softener and halogen
- Gas and liquid tight
- Very robust
- Conforms to the requirements of the European ATEX guideline
- 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: electrically conductive premium ester-polyurethane (Pre-PUR® see ch. 0.4)
- Spiral: spring steel wire

### TEMPERATURE RANGE

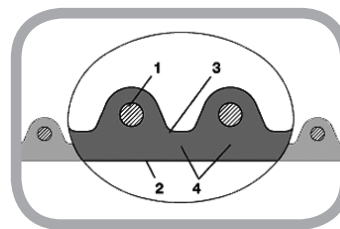
- -40°C approx to +90°C approx

### 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.  
reinforcement of the primary abrasion areas



## Airduc® PUR 356 EL

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	4.38	1	116	0.68	10 15		356-0032-1003
38	49	3.725	1	132	0.79	15	10	356-0038-1003
40	51	3.545	1	138	0.82	15	10	356-0040-1003
45	56	3.19	1	151	0.91	10 15		356-0045-1003
50	61	3.17	1	165	1	15	10	356-0050-1003
55	66	2.905	1	178	1.09	10 15		356-0055-1003
60	71	2.68	1	192	1.18	15	10	356-0060-1003
65	76	2.475	1	205	1.27	10 15		356-0065-1003
70	82	2.305	1	221	1.37	15	10	356-0070-1003
75	87	2.16	1	235	1.46	10 15		356-0075-1003
80	92	2.025	1	249	1.55	15	10	356-0080-1003
90	103	1.8	1	309	2.06	10 15		356-0090-1003
100	113	1.625	0.93	339	2.27	15	10	356-0100-1003
102	115	1.6	0.93	345	2.31	10		356-0102-1003
110	123	1.48	0.915	369	2.48	10		356-0110-1003
115	128	1.42	0.893	384	2.58	10		356-0115-1003
120	133	1.36	0.87	399	2.69	10		356-0120-1003
125	138	1.31	0.835	414	2.8	10		356-0125-1003
127	140	1.285	0.825	420	2.84	10		356-0127-1003
130	143	1.26	0.805	429	2.9	10		356-0130-1003
140	153	1.17	0.78	459	3.11	10		356-0140-1003
150	163	1.09	0.78	489	3.68	10		356-0150-1003
152	165	1.08	0.775	495	3.72	10		356-0152-1003
160	173	1.03	0.75	519	3.91	10		356-0160-1003
170	183	0.965	0.725	640	4.15	10		356-0170-1003
175	188	0.94	0.705	658	4.26	10		356-0175-1003
180	193	0.91	0.685	676	4.38	10		356-0180-1003
200	214	0.825	0.615	835	4.86	10		356-0200-1003
225	239	0.73	0.525	932	5.45	10		356-0225-1003
250	264	0.665	0.38	1450	7.35	10		356-0250-1003
275	289	0.6	0.255	1590	8.07	10		356-0275-1003
300	314	0.555	0.2	1725	8.78	10		356-0300-1003

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