

APPLICATIONS

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

- In areas liable to contain explosive mixtures (explosion protection)
- For abrasive solids such as dust, powder, fibres, chips and granulates
- For gaseous and liquid media
- For de-dusting and suction plants, industrial vacuum cleaners, suction of paper and textile fibres
- As resistant protection hose

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
- Light model
- Highly abrasion-proof (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
- 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
- Spiral: spring steel wire

TEMPERATURE RANGE

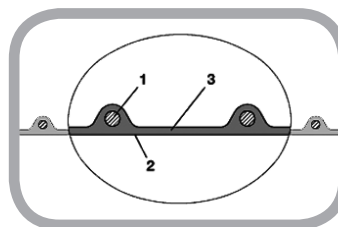
- -40°C approx to $+90^\circ\text{C}$ approx

COLOUR

- Transparent

CONSTRUCTION

- 1 Spring steel wire firmly embedded in wall
- 2 Profile with optimized flow properties
- 3 Wall thickness 0.8 mm approx



Airduc® PUR 351 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	
25	32	2.285	0.46	35	0.2	15	10	351-0025-1003
30	38	1.92	0.44	42	0.26	15	10	351-0030-1003
32	40	1.8	0.43	44	0.28	10 15		351-0032-1003
35	43	1.65	0.41	47	0.3	10 15		351-0035-1003
38	46	1.525	0.4	51	0.32	15	10	351-0038-1003
40	48	1.455	0.39	53	0.34	15	10	351-0040-1003
45	53	1.295	0.36	58	0.38	10 15		351-0045-1003
50	58	1.165	0.34	64	0.41	15	10	351-0050-1003
55	63	1.065	0.305	69	0.45	10 15		351-0055-1003
60	68	0.98	0.265	75	0.49	15	10	351-0060-1003
65	73	0.9	0.235	80	0.53	15	10	351-0065-1003
70	79	0.84	0.195	87	0.57	15	10	351-0070-1003
75	84	0.78	0.18	92	0.61	15	10	351-0075-1003
80	89	0.73	0.165	98	0.65	15	10	351-0080-1003
90	99	0.655	0.145	109	0.73	15	10	351-0090-1003
100	109	0.585	0.115	120	0.79	15	10	351-0100-1003
102	111	0.58	0.115	122	0.81	10 15		351-0102-1003
110	119	0.535	0.1	131	0.87	15	10	351-0110-1003
115	124	0.515	0.095	136	0.91	10 15		351-0115-1003
120	129	0.495	0.085	142	0.94	10 15		351-0120-1003
125	134	0.475	0.075	147	0.98	15	10	351-0125-1003
127	136	0.465	0.075	148	1	10 15		351-0127-1003
130	139	0.455	0.075	153	1.03	10 15		351-0130-1003
140	149	0.42	0.075	164	1.09	10 15		351-0140-1003
150	159	0.39	0.07	175	1.33	15	10	351-0150-1003
160	169	0.37	0.06	186	1.41	10 15		351-0160-1003
170	179	0.35	0.06	195	1.5	10 15		351-0170-1003
175	184	0.34	0.05	202	1.55	10 15		351-0175-1003
180	189	0.33	0.05	208	1.59	10 15		351-0180-1003
200	209	0.3	0.05	230	1.76	15	10	351-0200-1003
203	212	0.29	0.05	233	1.8	10 15		351-0203-1003
225	234	0.265	0.035	257	2.2	10 15		351-0225-1003
250	259	0.24	0.02	285	2.43	15	10	351-0250-1003
275	284	0.215	0.02	312	2.63	10		351-0275-1003
280	289	0.215	0.02	318	2.67	10		351-0280-1003
300	309	0.195	0.015	340	2.86	10		351-0300-1003
315	324	0.185	0.015	356	3	10		351-0315-1003
320	329	0.185	0.015	362	3.05	10		351-0320-1003
325	334	0.185	0.015	367	3.1	10		351-0325-1003
350	359	0.17	0.015	395	3.33	10		351-0350-1003
375	384	0.155	0.01	424	3.9	10		351-0375-1003
400	409	0.145	0.01	450	4.27	10		351-0400-1003
450	459	0.13	0.01	508	4.8	10		351-0450-1003
500	509	0.12	0.01	565	5.33	10		351-0500-1003

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