

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 abrasive solids such as powder, chips and granulates
- For gaseous and liquid media
- For industrial vacuum cleaners, granulate conveying systems, printing machines, blowers and compressors
- As robust protection conduit

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
- Heavy 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 with low weight
- Increased pressure and vacuum resistance
- 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
- 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

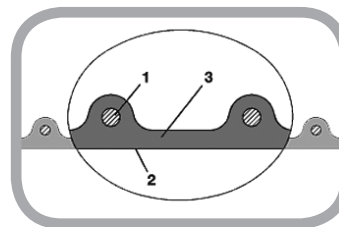
- -40°C approx to $+90^\circ\text{C}$ approx

COLOUR

- Transparent

CONSTRUCTION

- 1 Spring steel wire firmly embedded in wall
- 2 Profile with optimized flow properties
- 3 Wall thickness 1.4 mm approx



Airduc® PUR 355 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	
20	27	3.485	0.93	27	0.23	10 15		355-0020-1003
22	29	3.325	0.93	29	0.25	10 15		355-0022-1003
25	32	3.105	0.93	32	0.28	15	10	355-0025-1003
26	33	3.06	0.93	33	0.29	10 15		355-0026-1003
30	40	2.935	0.91	40	0.47	10 15		355-0030-1003
32	42	2.77	0.905	42	0.47	15	10	355-0032-1003
33	43	2.695	0.9	43	0.49	10 15		355-0033-1003
35	45	2.645	0.9	45	0.51	10 15		355-0035-1003
38	48	2.62	0.885	48	0.55	15	10	355-0038-1003
40	50	2.595	0.88	50	0.57		10 15	355-0040-1003
42	52	2.475	0.875	52	0.6	10 15		355-0042-1003
45	55	2.32	0.875	55	0.64	15	10	355-0045-1003
50	60	2.085	0.865	60	0.71		10 15	355-0050-1003
55	65	1.915	0.82	65	0.77	10 15		355-0055-1003
60	70	1.75	0.755	70	0.83		10 15	355-0060-1003
65	75	1.625	0.7	75	0.89	10 15		355-0065-1003
70	81	1.515	0.625	97	1.01		10 15	355-0070-1003
75	86	1.41	0.575	103	1.07	15	10	355-0075-1003
80	91	1.325	0.52	109	1.14	15	10	355-0080-1003
90	101	1.105	0.395	121	1.27	15	10	355-0090-1003
100	111	1.065	0.365	133	1.41		10 15	355-0100-1003
102	113	1.04	0.365	136	1.45	10 15		355-0102-1003
110	121	0.97	0.335	145	1.54	15	10	355-0110-1003
115	126	0.925	0.31	151	1.61	10 15		355-0115-1003
120	131	0.895	0.29	157	1.67	10 15		355-0120-1003
125	136	0.86	0.275	163	1.74	15	10	355-0125-1003
127	138	0.84	0.27	166	1.78	10 15		355-0127-1003
130	141	0.82	0.25	169	1.86	10 15		355-0130-1003
140	151	0.765	0.225	181	1.94	10 15		355-0140-1003
150	161	0.715	0.185	193	2.29	15	10	355-0150-1003
152	163	0.7	0.18	196	2.34	10 15		355-0152-1003
160	171	0.665	0.17	205	2.4	10 15		355-0160-1003
170	181	0.63	0.155	217	2.52	10 15		355-0170-1003
175	186	0.61	0.145	223	2.58	10 15		355-0175-1003
180	191	0.595	0.14	229	2.65	10 15		355-0180-1003
200	213	0.535	0.125	256	2.82	15	10	355-0200-1003
225	238	0.475	0.105	286	3.1	10 15		355-0225-1003
250	263	0.435	0.08	316	3.5	10 15		355-0250-1003
275	288	0.39	0.075	346	3.84	10		355-0275-1003
280	293	0.385	0.07	352	3.95	10		355-0280-1003
300	313	0.355	0.065	376	4.32	10		355-0300-1003
315	328	0.345	0.06	394	4.64		10	355-0315-1003
320	333	0.335	0.06	400	4.89	10		355-0320-1003
325	338	0.325	0.06	406	5	10		355-0325-1003
350	363	0.305	0.05	436	5.41	10		355-0350-1003
375	388	0.29	0.05	466	6.25	10		355-0375-1003
400	413	0.27	0.045	496	7.27	10		355-0400-1003
450	463	0.24	0.03	556	8.25	10		355-0450-1003
500	514	0.215	0.025	617	9.5	10		355-0500-1003

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