

ATEX/ESD · II 1/2GD (interior zone 0/20, exterior zone 1/21) — fully conductive per TRGS 727

AIRDUC® PUR 355 EC (HD)

Conductive heavy-duty polyurethane hose for abrasive media in ATEX zones



Electrically conductive heavy-duty polyurethane hose for pneumatic transport of abrasive and flammable media. Heavy-duty (HD) wall construction, fully conductive surface ($<10^3 \Omega$) meets TRGS 727 and is ATEX-approved for Zone 0/1/2 and 20/21/22 internally. PUR liner provides high wear resistance for powder and granulate transport.

R: $<10^3 \Omega$

ATEX: Zone 0/1/2 + 20/21/22

Media: Gas, Dust, Liquid, Granulate

Temp: -40 °C to 90 °C

✓ Cut to length

APPLICATIONS

- Pneumatic transport of gas and dust and liquid and granulate
- Industrial extraction and collection
- Process plants and production environments
- Mobile installations and flexible routing
- Vacuum and low-pressure systems

Technical specifications

Material	Polyurethane (PUR) with conductive surface
Colour	Black, transparent interior
Wall construction	Heavy-duty PUR wall with internal conductive coating, embedded steel spiral
Conveying media	Gas, Dust, Liquid, Granulate
Temperature range	-40 °C – 90 °C
Short-term peak	125 °C
Electrical resistance	$<10^3 \Omega$
ATEX classification	II 1/2GD (interior zone 0/20, exterior zone 1/21) — fully conductive per TRGS 727 ATEX 2014/34/EU (1999/92/EC) + TRGS 727
Cut to length	Yes
Manufacturer SKU	3551001-EC

Standards and compliance

ATEX 2014/34/EU, TRGS 727, DIN 26057 Type 2, NFPA 652, REACH, RoHS

Dimensions and ordering

The hose is supplied in 16 standard sizes from inner Ø 20.0 mm to 110.0 mm. Each size has its own article number. Standard roll length is typically 10 m, and the hose can be cut to length.

Inner Ø [mm]	Outer Ø [mm]	Wall th. [mm]	Press. DIN [bar]	Press. 50% [bar]	Vacuum DIN [bar]	Vacuum axial [bar]	Bend rad. [mm]	Max len. [m]	Weight [kg/m]	Roll [m]	Article no.
20	27	1	2.93	4.74	1	1	20	25	0.21	-	35500201003
22	29	1	2.93	4.74	1	1	20	25	0.23	-	35500221003
25.1	32.1	1	2.93	4.74	0.95	1	20	25	0.26	10	35500251003
26	33	1	2.47	3.99	0.95	1	22	25	0.27	-	35500261003
30	40.5	1.4	2.47	3.99	0.95	1	25	25	0.46	10	35500301003
32	42.5	1.4	2.325	3.75	0.95	1	26	25	0.49	-	35500321003
33	43.5	1.4	1.975	3.19	0.915	1	30	25	0.5	-	35500331003
38	48.5	1.4	1.975	3.19	0.915	1	29	25	0.56	10	35500381003
40	50.5	1.4	1.88	3.03	0.905	1	30	30	0.59	10	35500401003
42	52.5	1.4	1.515	2.45	0.783	1	32	30	0.62	-	35500421003
48	58.5	1.4	1.515	2.45	0.783	1	34	30	0.69	-	35500481003
50.5	61	1.4	1.515	2.45	0.783	1	35	30	0.73	10, 15, 20	35500501003
55	65.5	1.4	1.385	2.23	0.712	1	38	30	0.79	-	35500551003
60	70.5	1.4	1.27	2.05	0.65	1	40	30	0.85	10	35500601003
64.5	74	1.4	1.175	1.9	0.603	1	43	30	0.9	-	35500651003
110	121	1.4	0.98	1.58	0.98	0.77	90	20	1.57	10	35501101003

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