

ATEX & ESD HOSES - II 1/2GD (interior zone 0/20, exterior zone 1/21) – fully conductive per TRGS 727

AIRDUC® PUR 356 EC (XHD)

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



Electrically conductive extra-heavy-duty polyurethane hose for pneumatic conveying of extremely abrasive and combustible media at high throughput. XHD wall construction (1.8-2 mm) gives long service life against wear, and the fully conductive surface ($<10^3 \Omega$) complies with TRGS 727 and is ATEX-approved for Zone 0/1/2 and 20/21/22 inside.

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 conveying of extremely abrasive granulates and powders
- High-throughput process plants in ATEX zones
- Suction trucks and vacuum conveying systems
- Dosing systems and granulate dryers
- Plant cleaning and industrial vacuum cleaners

Technical specifications

Material	Polyurethane (PUR) with conductive surface
Colour	Black, transparent interior
Wall construction	Extra-heavy-duty PUR wall (1.8-2 mm) with internal conductive coating, embedded steel spiral
Spiral material	Galvanised steel wire
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	3561003

Standards and compliance

ATEX 2014/34/EU, TRGS 727, din-26057-4, NFPA 652, REACH, RoHS

Dimensions and ordering

The hose is supplied in 12 standard sizes from inner Ø 32.0 mm to 100.0 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]	Vacuum axial [bar]	Bend rad. [mm]	Max len. [m]	Weight [kg/m]	Article no.
32	43	1.8	3.635	1	95	25	0.63	35600321003
40	52	2	3.635	1	109	25	0.82	35600401003
50.5	62.5	1.8	2.95	1	134	25	0.95	35600501003
51	63	1.8	2.8	1	134	15	0.96	35600511003
60	72	1.8	2.485	1	156	25	1.11	35600601003
63	74	1.8	2.395	1	163	15	1.15	35600631003
65	76	1.8	2.305	1	169	25	1.18	35600651003
70	82	1.8	2.145	1	186	25	1.27	35600701003
75	87	1.8	1.99	1	193	25	-	35600751003
76	88	1.8	1.995	1	195	16	1.37	35600761003
80	92	1.8	1.89	1	205	25	1.44	35600801003
100	113	2	1.685	1	272	20	2.28	35601001003

Overpressure and underpressure are recommended operating limits; products can be subjected to higher loads on request. The bend radius is measured along the inside of the hose bend.

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