

ATEX & ESD HOSES - II 1/2GD (interior zone 0/20, exterior zone 1/21)

## AIRDUC® PUR 351 EC (MD)

Electrically conductive polyurethane hose for ATEX zones



Electrically conductive polyurethane hose for conveying abrasive media in explosion hazard zones. Abrasion-resistant and flexible with a medium-duty (MD) wall, with surface resistance below  $10^3 \Omega$ , well below the TRGS 727 threshold.

**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

- Extraction and aspiration of industrial dust from production machinery
- Granulate conveying in the plastics industry between silos and injection-moulding machines
- Industrial vacuum cleaners where collected material is combustible or handled in a combustible environment
- Bulk-bag filling and discharging (FIBCs)
- Oil mist extraction
- Gas transport in ATEX-classified environments
- General conveyance of abrasive media

## Technical specifications

<b>Material</b>	Polyurethane (PUR), electrically conductive
<b>Colour</b>	Black
<b>Wall construction</b>	Medium duty (MD), spiral-reinforced conductive polyurethane
<b>Spiral material</b>	spring steel wire, embedded in PUR wall
<b>Conveying media</b>	Gas, Dust, Liquid, Granulate
<b>Temperature range</b>	-40 °C – 90 °C
<b>Short-term peak</b>	90 °C
<b>Electrical resistance</b>	$<10^3 \Omega$
<b>ATEX classification</b>	II 1/2GD (interior zone 0/20, exterior zone 1/21) ATEX 2014/34/EU (1999/92/EC) + TRGS 727
<b>Cut to length</b>	Yes
<b>Manufacturer SKU</b>	3511003

### 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 27 standard sizes from inner Ø 25.1 mm to 315 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]	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.
25.1	32.1	2.445	4.06	0.46	1	23	20	0.22	10	35100251003
30	37.5	1.945	3.22	0.44	1	26	20	0.26	10	35100301003
32	39.5	1.83	3.03	0.43	1	27	20	0.27	10	35100321003
35	42.5	1.55	2.56	0.4	1	29	20	0.29	-	35100351003
38	45.5	1.55	2.56	0.4	1	31	25	0.32	10	35100381003
40	47.5	1.475	2.44	0.39	1	32	30	0.33	10	35100401003
45	52.5	1.315	2.18	0.36	1	35	30	0.37	10	35100451003
50.5	58	1.19	1.96	0.34	1	38	30	0.41	10	35100501003
60	67.5	0.995	1.64	0.265	0.84	44	30	0.48	10	35100601003
64.5	72	0.92	1.52	0.235	0.71	47	30	0.52	10	35100651003
70	79	0.855	1.41	0.195	0.84	50	25	0.57	10	35100701003
75	84	0.8	1.32	0.18	0.73	53	25	0.6	10	35100751003
80	89	0.75	1.24	0.165	0.64	56	25	0.64	10	35100801003
90	99	0.67	1.1	0.145	0.51	62	25	0.72	10	35100901003
101.5	110.5	0.605	1	0.115	0.41	68	25	0.78	10	35101001003
105	114	0.55	0.91	0.1	0.34	71	25	0.81	-	35101051003
110	119	0.55	0.91	0.1	0.34	74	25	0.84	10	35101101003
120	129	0.505	0.83	0.085	0.28	80	25	0.92	10	35101201003
126.5	135.5	0.485	0.8	0.075	0.26	83	25	0.97	10	35101251003
130	139	0.43	0.71	0.075	0.21	85	25	0.99	-	35101301003
140	149	0.43	0.71	0.075	0.21	92	25	1.07	10	35101401003
151.5	160.5	0.405	0.67	0.07	0.37	98	20	1.51	10	35101501003
160	169	0.38	0.63	0.06	0.32	104	20	1.59	10	35101601003
180	189	0.335	0.56	0.05	0.24	116	20	-	10	35101801003
202.3	211.3	0.305	0.5	0.05	0.19	128	15	2	10	35102001003
250	260	0.245	0.4	0.02	0.11	158	15	2.28	10	35102501003
315	324	-	-	-	-	190	10	2.85	-	35103151003
-	63	-	-	-	-	-	-	-	-	35100551003
-	409	-	-	-	-	-	-	-	-	35104001003

Fields without a value (—) are not specified in the manufacturer's factsheet. Overpressure and underpressure values are recommended operating limits; the product can be subjected to higher loads on request. Bend radius is measured along the inside of the hose bend.

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## Contact and advisory

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