

ATEX/ESD · II 2GD (interior zone 0/1/2 gases, zone 20/21/22 dust; exterior zone 1/21) — antistatic per TRGS 727

AIRDUC® PUR 350 AS BLACK (MD)

Antistatic polyurethane hose in black for ATEX zones and demanding industrial duty



Antistatic polyurethane hose in black, medium-duty construction for conveying abrasive media in explosion hazard zones. Surface resistance below $10^9 \Omega$ meets the TRGS 727 and NFPA 652 thresholds. The black outer cover makes it easy to identify on a worksite with several hose types, and the abrasion-resistant wall handles typical industrial and municipal vehicle applications.

R: $<10^9 \Omega$

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

Media: Gas, Dust

Temp: -40 °C to 90 °C

✓ Cut to length

APPLICATIONS

- Pneumatic conveyance of combustible dust and bulk materials in Zone 20/21/22
- Extraction of wood dust, grinding particles and dust in classified zones
- Granulate conveyance in the plastics industry between silos and processing machines
- Suction trucks, sweepers and municipal vehicles with antistatic requirements
- Industrial vacuum cleaners and centralised extraction systems
- Bulk-bag filling and discharging (FIBCs)
- Ventilation and aeration systems in classified areas

Technical specifications

| | |
|------------------------------|---|
| Material | Polyurethane (PUR), permanently antistatic |
| Colour | Black |
| Wall construction | Medium duty (MD), spiral-reinforced polyurethane with antistatic wall formulation |
| Spiral material | spring steel wire, embedded in PUR wall |
| Conveying media | Gas, Dust |
| Temperature range | -40 °C – 90 °C |
| Short-term peak | 125 °C |
| Electrical resistance | $<10^9 \Omega$ |
| ATEX classification | II 2GD (interior zone 0/1/2 gases, zone 20/21/22 dust; exterior zone 1/21) — antistatic per TRGS 727 ATEX 2014/34/EU (1999/92/EC) + TRGS 727 |
| Cut to length | Yes |
| Manufacturer SKU | 3503030 |

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 21 standard sizes from inner Ø 20.0 mm to 300.0 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 | 0.7 | 2.445 | 5.45 | 0.755 | 1 | - | 10 | 0.18 | - | 35000203030 |
| 25.1 | 32.1 | 0.7 | 2.445 | 5.45 | 0.755 | 1 | - | 25 | 0.2 | - | 35000253030 |
| 26 | 33 | 0.7 | 2.445 | 5.45 | 0.755 | 1 | - | 10 | 0.21 | - | 35000263030 |
| 32 | 39 | 0.7 | 1.93 | 4.29 | 0.59 | 1 | - | 25 | 0.25 | - | 35000323030 |
| 40 | 47 | 0.7 | 1.555 | 3.46 | 0.47 | 1 | 32 | 30 | 0.31 | 10 | 35000403030 |
| 45 | 52 | 0.7 | 1.39 | 3.08 | 0.42 | 1 | - | 30 | 0.34 | - | 35000453030 |
| 50.5 | 57.5 | 0.7 | 1.25 | 2.78 | 0.38 | 1 | 38 | 30 | 0.38 | 10 | 35000503030 |
| 60 | 67 | 0.7 | 1.05 | 2.33 | 0.315 | 0.83 | 44 | 30 | 0.45 | 10 | 35000603030 |
| 70 | 78 | 0.7 | 0.9 | 2 | 0.185 | 0.83 | 50 | 30 | 0.52 | 10 | 35000703030 |
| 75.6 | 83.6 | 0.7 | 0.84 | 1.87 | 0.175 | 0.72 | 53 | 30 | 0.56 | 10 | 35000753030 |
| 80 | 88 | 0.7 | 0.79 | 1.75 | 0.16 | 0.64 | 56 | 30 | 0.59 | 10 | 35000803030 |
| 101.5 | 109.5 | 0.7 | 0.635 | 1.41 | 0.135 | 0.66 | 68 | 25 | 0.87 | 10 | 35001003030 |
| 120 | 128 | 0.7 | 0.53 | 1.17 | 0.115 | 0.46 | 80 | 25 | 1.02 | 10 | 35001203030 |
| 126.5 | 134.5 | 0.7 | 0.51 | 1.13 | 0.11 | 0.42 | 83 | 25 | 1.07 | 10 | 35001253030 |
| 140 | 148 | 0.7 | 0.455 | 1.01 | 0.095 | 0.33 | 92 | 25 | 1.18 | 10 | 35001403030 |
| 151.5 | 159.5 | 0.7 | 0.425 | 0.94 | 0.075 | 0.36 | 98 | 20 | 1.3 | 10 | 35001503030 |
| 160 | 168 | 0.7 | 0.4 | 0.88 | 0.07 | 0.31 | 104 | 20 | 1.37 | 10 | 35001603030 |
| 180 | 188 | 0.7 | 0.355 | 0.78 | 0.06 | 0.24 | - | 20 | 1.54 | - | 35001803030 |
| 202.3 | 210.3 | 0.7 | 0.32 | 0.71 | 0.055 | 0.19 | 128 | 15 | 1.73 | 10 | 35002003030 |
| 250 | 258 | 0.7 | 0.255 | 0.57 | 0.045 | 0.12 | 158 | 15 | 2.13 | 10 | 35002503030 |
| 300 | 308 | 0.7 | 0.215 | 0.47 | 0.035 | 0.07 | 188 | 10 | 2.54 | - | 35003003030 |

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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| | |
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This datasheet is generated automatically from Particulair product data. All specifications are taken from the manufacturer's factsheet and are subject to change without notice. Prices and availability provided on request.