

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

AIRDUC® PUR-INOX 351 FOOD-AS (MD)

Antistatic PUR hose with stainless steel spiral — food-grade for ATEX zones



Hard-wearing antistatic polyurethane hose with stainless steel (INOX) spiral, specifically designed for conveying dry, abrasive bulk materials and powders in the food and pharmaceutical industries. The wall construction combines food-grade quality (FDA 21 CFR 177.2600, EU 10/2011, GMP EU 2023/2006) with an antistatic wall $<10^9 \Omega$ and full ATEX approval for Zone 0/1/2 (gases) and Zone 20/21/22 (dust). The stainless spiral ensures corrosion resistance through CIP cleaning cycles.

R: $<10^9 \Omega$

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

Media: Gas, Dust, Liquid

Temp: -40 °C to 90 °C

✓ Cut to length

APPLICATIONS

- Bulk-bag filling and discharging of dry foods and powders
- Granulate conveying between silos and processing machines in pharma and food
- Tablet presses and powder management in pharmaceutical production
- Pneumatic conveying of grain, flour and animal feed
- Extraction and pneumatic conveying in classified food zones
- Dairy industry and pharma where antistatic wall combines with CIP cleaning

Technical specifications

Material	Polyurethane (PUR), food-grade and permanently antistatic
Colour	Transparent
Wall construction	Medium duty (MD), spiral-reinforced food-grade PUR with stainless steel spiral
Spiral material	stainless steel (INOX)
Conveying media	Gas, Dust, Liquid
Temperature range	-40 °C – 90 °C
Short-term peak	90 °C
Electrical resistance	$<10^9 \Omega$
ATEX classification	II 1/2GD (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	3511018

Standards and compliance

ATEX 2014/34/EU, TRGS 727, EU 1935/2004, EU 10/2011, fda-21-cfr-177-2600, gmp-eu-2023-2006, REACH, RoHS

Dimensions and ordering

The hose is supplied in 23 standard sizes from inner Ø 25.1 mm to 250.0 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.
25.1	32.1	1	2.64	4.49	0.68	1	22	21	0.24	10	35100251018
32	40	1	2.09	3.56	0.44	1	28	20	0.29	10	35100321018
38	46	1	1.775	3.02	0.37	1	32	20	0.34	10	35100381018
40	48	1	1.69	2.87	0.355	1	33	30	0.36	10	35100401018
50.5	58.5	1	1.365	2.32	0.285	1	39	30	0.44	10	35100501018
60	68	1	1.145	1.94	0.235	0.82	45	30	0.52	10	35100601018
64.5	72.5	1	1.055	1.79	0.22	0.7	48	30	0.55	10	35100651018
70	79	1	0.985	1.67	0.145	0.83	52	25	0.6	10	35100701018
75	84	1	0.92	1.56	0.135	0.72	55	25	0.64	10	35100751018
80	89	1	0.865	1.46	0.125	0.64	58	25	0.68	10	35100801018
90	99	1	0.77	1.3	0.11	0.5	64	30	0.76	5, 10	35100901018
101.5	110.5	1	0.695	1.18	0.105	0.66	70	25	0.98	10	35101001018
105	114	1	0.63	1.07	0.095	0.54	74	25	1.06	-	35101051018
110	119	1	0.63	1.07	0.095	0.54	76	25	1.06	-	35101101018
120	129	1	0.555	0.94	0.085	0.42	81	25	1.16	-	35101201018
126.5	135.5	1	0.555	0.94	0.085	0.42	85	25	1.22	10	35101251018
140	149	1	0.5	0.84	0.075	0.33	94	25	1.34	-	35101401018
151.5	160.5	1	0.465	0.79	0.075	0.37	100	20	1.6	10	35101501018
160	169	1	0.435	0.74	0.07	0.32	106	20	1.68	-	35101601018
180	189	1	0.35	0.59	0.055	0.2	118	20	1.89	-	35101801018
202.3	211.3	1	0.35	0.59	0.055	0.2	133	15	2.12	10	35102001018
225	234	1	-	-	-	-	145	15	2.19	-	35102251018
250	259	1	-	-	-	-	160	15	2.43	-	35102501018

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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