

ATEX/ESD · in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: pneumatic transport of flammable dusts and bulk materials (Zone 20, 21, 22 inside), aspiration of combustible dusts (Zone 22 inside), for conveying for flammable liquids (inside zone 0, 1, 2), for conveying for non-flammable liquids, for use in zone 1 and 2 (gases), for use in zone 0 (gases)

PROTAPE® PE 322 EC (XLD)

Lightweight, electrically conductive PE hose for gas, dust and vapours, -35 to +80°C



PROTAPE® PE 322 EC (XLD) is a highly flexible, compressible suction and pressure hose with a polyethylene wall and spring steel spiral. The wall is electrically conductive below $10^3 \Omega$ and highly resistant to chemicals. The manufacturer states a normal temperature range from -35 to +80°C. The hose is supplied in 19 sizes from inner Ø 40 to 300 mm.

R: $<10^3 \Omega$

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

Media: Gas, Dust

Temp: -35°C to +80°C

✓ Cut to length

APPLICATIONS

- Extraction of gases, dust and vapours
- Extraction of chemical and solvent-containing vapours
- Dedusting and filter systems
- Extraction arms and extractor hoods
- Pneumatic conveying and ventilation

Technical specifications

Material	Polyethylene (PE), electrically conductive
Colour	Black
Wall construction	Extra light duty (XLD), wall thickness 0.3 mm, highly flexible and compressible
Spiral material	Spring steel
Conveying media	Gas, Dust
Temperature range	-35°C – +80°C
Electrical resistance	$<10^3 \Omega$
ATEX classification	in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: pneumatic transport of flammable dusts and bulk materials (Zone 20, 21, 22 inside), aspiration of combustible dusts (Zone 22 inside), for conveying for flammable liquids (inside zone 0, 1, 2), for conveying for non-flammable liquids, for use in zone 1 and 2 (gases), for use in zone 0 (gases) ATEX 2014/34/EU (1999/92/EC) + TRGS 727
Cut to length	Yes
Manufacturer SKU	3221003

Standards and compliance

ATEX 2014/34/EU, TRGS 727, REACH, RoHS

Dimensions and ordering

The hose is supplied in 19 standard sizes from inner Ø 40 mm to 300 mm. Each size has its own article number. Standard roll length is 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]	Roll [m]	Article no.
40	45	0.3	0.47	0.28	27	20	0.12	10	32200401003
50.5	55.5	0.3	0.38	0.24	33	20	0.16	10	32200501003
60	67	0.3	0.315	0.19	38	20	0.2	10	32200601003
70	78	0.3	0.255	0.14	44	20	0.23	-	32200701003
75.6	83.6	0.3	0.255	0.13	46	20	0.26	10	32200751003
80	87	0.3	0.24	0.12	48	20	0.26	10	32200801003
90	98	0.3	0.21	0.1	53	20	0.29	10	32200901003
95	103	0.3	0.19	0.08	56	20	0.31	-	32200951003
101.5	108.5	0.3	0.19	0.08	58	20	0.33	10	32201001003
110	118	0.3	0.175	0.075	63	20	0.36	10	32201101003
120	128	0.3	0.16	0.07	68	20	0.39	10	32201201003
126.5	133.5	0.3	0.155	0.055	71	20	0.41	10	32201251003
140	147	0.3	0.135	0.05	78	20	0.45	-	32201401003
151.5	158.5	0.3	0.125	0.05	83	15	0.48	10	32201501003
160	167	0.3	0.12	0.045	88	15	0.51	10	32201601003
180	188	0.3	0.105	0.035	98	15	0.57	10	32201801003
202.3	209.3	0.3	0.095	0.035	108	15	0.73	10	32202001003
250	258	0.3	0.075	0.015	133	15	0.99	10	32202501003
300	309	0.3	0.065	0.01	159	10	1.36	-	32203001003

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.

Other Particulair microsities

We build specialised microsities for critical industries. Each site provides in-depth product data, documentation and expert guidance for the domain it covers.

particulair.eu/ex-vac	ATEX and ACD vacuum cleaners for explosion hazard zones
particulair.eu/vace	Nozzles and accessories for critical environments
particulair.eu/life-science	Vacuums for pharma and cleanroom
particulair.eu/hardo	Explosion-protected electrical Ex-equipment

Contact and advisory

Particulair

Højtoften 12
2690 Karlslunde, Denmark
CVR: 34129894

Phone: (+45) 70 23 12 03
E-mail: sales@particulair.com
Web: particulair.eu

Product page: particulair.eu/flexcore/en/atex-esd-hoses/protape-pe-322-ec-xld/

SMARTER THINKING • BETTER WORKING

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.