

FLAME-RETARDANT

RESPIROFORM

Breathing air hose per EN 14594, antistatic, flame-retardant



RESPIROFORM is a standardised breathing air hose specifically qualified per EN 14594 - the European standard for compressed air breathing systems. The hose has TPU lining and TPE outer coating with 2 black antistatic longitudinal stripes below 10^9 ohm. The outer coating is oil-resistant, heat-resistant and flame-retardant - three complementary safety properties for firefighting, mining and industrial applications. PN 30 bar working pressure with 90 bar burst pressure (3x safety factor). Typically used by firefighters, sandblasting personnel, tank cleaners and mine workers in chemical-exposed zones.

R: $<10^9 \Omega$

Media: Gas, Liquid

Temp: -20 °C to 70 °C

✓ Cut to length

APPLICATIONS

- Compressed air breathing systems (SCBA) for firefighting personnel
- Breathing air in tank cleaning and asbestos handling
- Sandblasting work with breathing protection
- Mine work in underground installations
- Chemical production facilities with breathing air requirements
- Industrial breathing air where antistatic and flame-retardant combine

Technical specifications

Material	TPU (thermoplastic polyurethane) inner, TPE (thermoplastic elastomer) outer
Colour	transparent inner, black outer with 2 antistatic stripes
Wall construction	Smooth inner TPU tube, outer TPE coating with 2 black antistatic longitudinal stripes, textile reinforcement
Spiral material	Tekstil-armering
Conveying media	Gas, Liquid
Temperature range	-20 °C – 70 °C
Short-term peak	70 °C
Electrical resistance	$<10^9 \Omega$
Cut to length	Yes
Manufacturer SKU	4221

Standards and compliance

EN ISO 1307:2008, en-14594, REACH, RoHS

Dimensions and ordering

The hose is supplied in 1 standard sizes from inner Ø 9.5 mm to 9.5 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]	Burst [bar]	Bend rad. [mm]	Max len. [m]	Weight [kg/m]	Roll [m]	Article no.
9.5	16	3.25	30	90	60	50	0.18	50	4221010000

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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