

Airsquare / Nanoclass Square Pro ATEX

Product Range



Features



EX

Applications



Filter Class

E H

ePM1



KEY FACTS

- Various dimensions and extrusion types
- High-quality, anodized aluminum frame with stainless steel grid protection
- Filter series tested according to EN 13501-1:2010 as E d0

DESIGN

Pleated cells with state-of-the-art hotmelt spacing technology to ensure even spacing of the pleats. Stainless steel grid protection with dry sealing.

APPLICATIONS

Fine dust and HEPA filtration for process applications in HVAC and clean room systems.

OPTIONS

Extrusions	Various extrusion types available
Gasket	1 or 2 sides



The filters used in the application areas are electrically conductive and comply with the European ATEX directive 2014/34/EU for products used in explosive atmospheres.

Airsquare & Nanoclass Square N Pro ATEX are certified according to EN 13501-1:2010 in flammability class E and droplet formation class d0.

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PERFORMANCE DATA

	Filter Class		Dimensions	Flow Rate	Pressure Drop*
	ISO 16890	EN 1822	mm	m ³ /h	Pa
Airsquare Pro ATEX FC	ePM1 55%	-	610 x 610 x 70	2.000	90
Airsquare Pro ATEX FC	ePM1 80%	-	610 x 610 x 70	2.000	140
Nanoclass Square Pro ATEX FC	-	E11	610 x 610 x 70	600	80
Nanoclass Square Pro ATEX FC	-	H13	610 x 610 x 70	600	95
Nanoclass Square Pro ATEX FC	-	H14	610 x 610 x 70	600	105

* Pressure drop tolerance \pm 10%

SPECIFICATION

Recommended air flow	Flow rate \pm 20 %	Rec. final pressure for efficient energy use acc. to EN 13053 (Airsquare)	Lowest value of initial pressure drop + 100 Pa, or initial pressure drop x 3
Heat resistance	Max. 70 °C	Recommended final pressure drop (Nanoclass Square)	600 Pa
Regenerable	No	Moisture resistance	100 % rel. humidity
Fire classification	E d0 according EN 13501-1:2010	Incinerable	No

ZONE AUTHORIZATION

Filters are authorized, depending on their filtration classes, for use in the following zones with the listed flammable substances.

Substance	Zone	Explosion Group
Dust	Zone 20, Zone 21, Zone 22	IIIA - Flammable lints and flocculation IIIB - Isolating, non-conductive dust
Gases	Zone 0, Zone 1, Zone 2	IIA - Diesel, petrol, ethane, etc IIB - Town gas, ethylene, etc IIC - Hydrogen, acetylene, etc