

## Evaluation of the Particulate Filtration Efficiency Of D Grade Particulate Removal Filter Elements for use Compressed Air Line Filter Housings (Models F1 – F18)

### ISO 12500-3:2009

Certificate Issue Date: June 2019

### Test Report Reference: IBR JN 18287A and IBR JN 18287C3

#### Test Standards:

ISO 12500-3:2009 Filters for compressed air - Test methods - Part 3: Particulates

Initial Dry Differential Pressure (mbar)	85		
Particle Size Range ( $\mu\text{m}$ )	0,1 $\mu\text{m}$ < d $\leq$ 0,5 $\mu\text{m}$	0,5 $\mu\text{m}$ < d $\leq$ 1,0 $\mu\text{m}$	1,0 $\mu\text{m}$ < d $\leq$ 5,0 $\mu\text{m}$
Number of Upstream Particles	4375625	752942	10077
Number of Downstream Particles	195	34	0
Particle Removal Efficiency	99.9955%	99.9955%	100%
ISO8573-1:2010 Quality Class	Class 1	Class 1	Class 1
Max Number of Particles*	4.49 X 10 <sup>8</sup>	8.86 x 10 <sup>6</sup>	N/A

\*Maximum number of particles (0.1 – 5.0 $\mu\text{m}$ ) allowable at inlet to meet quality class for particulates

Filter models tested at 100% rated flow at 7 barg [8 bar(a)], and selected by the client as being representative of the entire filter range.

Note: Actual filter efficiency at larger particle sizes is greater.

Tested in accordance with ISO 12500-3:2009 for particulates using solid particulate aerosol 0.1-5 $\mu\text{m}$  per ISO 12500-3 sec 8.2 and using DEHS aerosol per EN1822-5:2009.