

## Evaluation of the Particulate Filtration Efficiency Of S 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 18287B and IBR JN 18287C2

#### Test Standards:

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

Initial Dry Differential Pressure (mbar)	55	
Particle Size Range ( $\mu\text{m}$ )	$0,5\mu\text{m} < d \leq 1,0 \mu\text{m}$	$1,0\mu\text{m} < d \leq 5,0 \mu\text{m}$
Number of Upstream Particles	771089	10217
Number of Downstream Particles	6197	60
Particle Removal Efficiency	99.1963%	99.4127%
ISO8573-1:2010 Quality Class	Class 3	Class 3
Max. Number of Particles*	$1.12 \times 10^7$	$1.70 \times 10^5$

\*Maximum number of particles (0.5 – 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 0.5-5 $\mu\text{m}$  per ISO 12500-3 sec 8.2 and using KCL (Neutralised) per EN1822-5:2009.