



Validation of compressed air filters according to ISO 12500-1:2007

(Filters for compressed air – Test methods – Oil aerosols)

Customer: HB Solucoes em ar comprimido, Rua Francisco Pedro do Amarai 334,
Sao Paulo CEP 05334-110, Brasil

IUTA Test Results No.: FPZ 152/10-55955.00 and FPZ 152.2/10-55955.00

Tested products: 3 filter cartridges model E017-A1

Test parameters:				
Inlet pressure	7 bar(e) [8 bar(a)]			
Air flow for testing	55 m ³ /h (ANR)			
Test inlet oil concentration (Tellus C32)	ca. 10 mg/m ³			
Threefold measurement per cartridge				
Test results	Cartridge 1	Cartridge 2	Cartridge 3	mean value
Dry pressure drop* [mbar]	49	47	46	47
Saturated pressure drop** [mbar]	162	182	141	162
Mean outlet oil concentration [mg/m³] ***	0.013 ± 0.006	0.013 ± 0.006	0.009 ± 0.004	0.011 ± 0.005

The cartridges were mounted in filter housing model A1-0017G.

- * Pressure drop measured at the provided holes in the housing upstream and downstream the cartridge.
- ** No data acquisition during measurement 2 and 3.
- *** Average of the results of 3 analyses per cartridge with designation of standard deviation of analyses 1 – 3.
Mean value: standard deviation of all 9 analyses.

Duisburg, 08.03.2011

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IUTA Test Results No.: FPZ 152/10-55955.00 and FPZ 152.2/10-55955.00

Tested products: 3 filter cartridges model E017-A2

Test parameters:				
Inlet pressure				7 bar(e) [8 bar(a)]
Air flow for testing				55 m ³ /h (ANR)
Test inlet oil concentration (Tellus C32)				ca. 10 mg/m ³
Threefold measurement per cartridge				
Test results	Cartridge 1	Cartridge 2	Cartridge 3	mean value
Dry pressure drop* [mbar]	58	58	58	58
Saturated pressure drop** [mbar]	172	149	151	157
Mean outlet oil concentration [mg/m³] ***	0.008 ± 0.004	0.011 ± 0.008	0.006 ± 0.006	0.008 ± 0.006

The cartridges were mounted in filter housing model A1-0017G.

* Pressure drop measured at the provided holes in the housing upstream and downstream the cartridge.

** No data acquisition during measurement 2 and 3.

*** Average of the results of 3 analyses per cartridge with designation of standard deviation of analyses 1 – 3.
Mean value: standard deviation of all 9 analyses.

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Bekanntgegebene Meßstelle für
Messungen/Untersuchungen nach:
§§ 26, 28 BImSchG
Zertifizierter Entsorgungsbetrieb
Zugelassene Prüfstelle im Sinne
TA Luft 5.4.8.10.3, 5.4.8.11.3