



- IUTA-CERTIFICATE -
Validation of compressed air filters
according to ISO 12500-3:2009^{1) 2)}

(Filters for compressed air – Test methods – Particulates)

- 1) According to the state of the art in particle measurement technology via online optical aerosol spectrometry particle sizes < 0.14 µm cannot be detected under pressure.
2) Particle size range: (0.19 – 2.74) µm

Customer: Airfilter Engineering (M) Sdn. Bhd. No. 20, Jalan Anggerik Mokara 31/47,
Kota Kemuning, 40460 Shah Alam, Selangor, Malaysia

Tested product: Grade H

IUTA test report: LrF 34/14

Tested cartridge: Single measurement of three cartridges model Grade H

Test parameter			
Inlet pressure	7 bar (e) [8 bar (a)]		
Air flow	50 Nm ³ /h = 100 % nominal flow rate		
Flow direction	from inside to outside		
Test aerosol	DEHS		
Particle size range	(0.19 – 2.74) µm		
Aerosol spectrometer	PCS 1200 (Palas GmbH)		
Test results			
Particle diameter [µm]	lower		
* (mbar) diameter [µm]	0.19	0.24	0.36
upper	0.24	0.36	0.52
Average efficiency [%]	99.999	99.9998	99.9999

Remark: The product was tested under the designation "Grade H"

* Averages were calculated from the data shown in the test report (mean values of 3 tests in filter housing model "BB141033".

Duisburg, 20th August 2014

Managing Director

Department Head