

Institut für Energie- und Umwelttechnik e.V. (IUTA)

Air Quality & Filtration
Bliersheimer Straße 58 – 60
47229 Duisburg
Germany



- IUTA-CERTIFICATE -

Validation of compressed air filters based on ISO 12500-3:2009¹⁾

(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 < 0.19 µm cannot be detected under pressure.

Customer: BEKO Technologies GmbH
Tested product: 3 cartridges of filter type "04SX" usage for super fine filter
IUTA test report: UN2-160524-T5596900-035d

Test parameters:										
Inlet pressure		7 bar (e)								
Air flow		35 Sm ³ /h (ANR) = 100% nominal flow rate								
Flow direction		from inside to outside								
Test aerosol		DEHS								
Particle size range		(0.19 – 6.04) µm								
Aerosol Spectrometer		PCS 2100 (Palas GmbH)								
Test results										
Particle-size range [µm]	lower	0.19	0.24	0.36	0.52	0.81	1.15	1.78	2.74	3.92
	upper	0.24	0.36	0.52	0.81	1.15	1.78	2.74	3.92	6.04
Average efficiency* [%]		99.943	99.989	99.9993	99.9995	99.9998	99.9997	100	100	100

* Averages were calculated from the data shown in the test report mean values of 3 tests.

The cartridges were mounted in filter housing model: "S040"

Duisburg, 01. March 2017

Managing Director

Head of Department

Vereinsregister VR 2872, Duisburg

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Zugelassene Prüfstelle im Sinne
TA Luft 5.4.8.10.3, 5.4.8.11.3

Zertifizierter Entsorgungsbetrieb