



T018 (EN ISO/IEC 17025)



Determination of the initial efficiency of air filter CD325/660/806/10,M according to EN 779:2002

Requested by: Nordic Air Filtration A/S

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Task **Determination of the initial efficiency of air filter CD325/660/806/10,M according to EN 779:2002**

Sample The customer delivered one air filter of type CD325/660/806/10,M.

The sample was received 17.10.2005.
The measurements were made 19.10.2005.

Test method The tests were made according to EN 779:2002 /1/ and were restricted to determination of the initial efficiency. The filter to be tested was mounted on a plate which was installed in the test rig between the test filter duct section and the downstream pressure tap duct section.

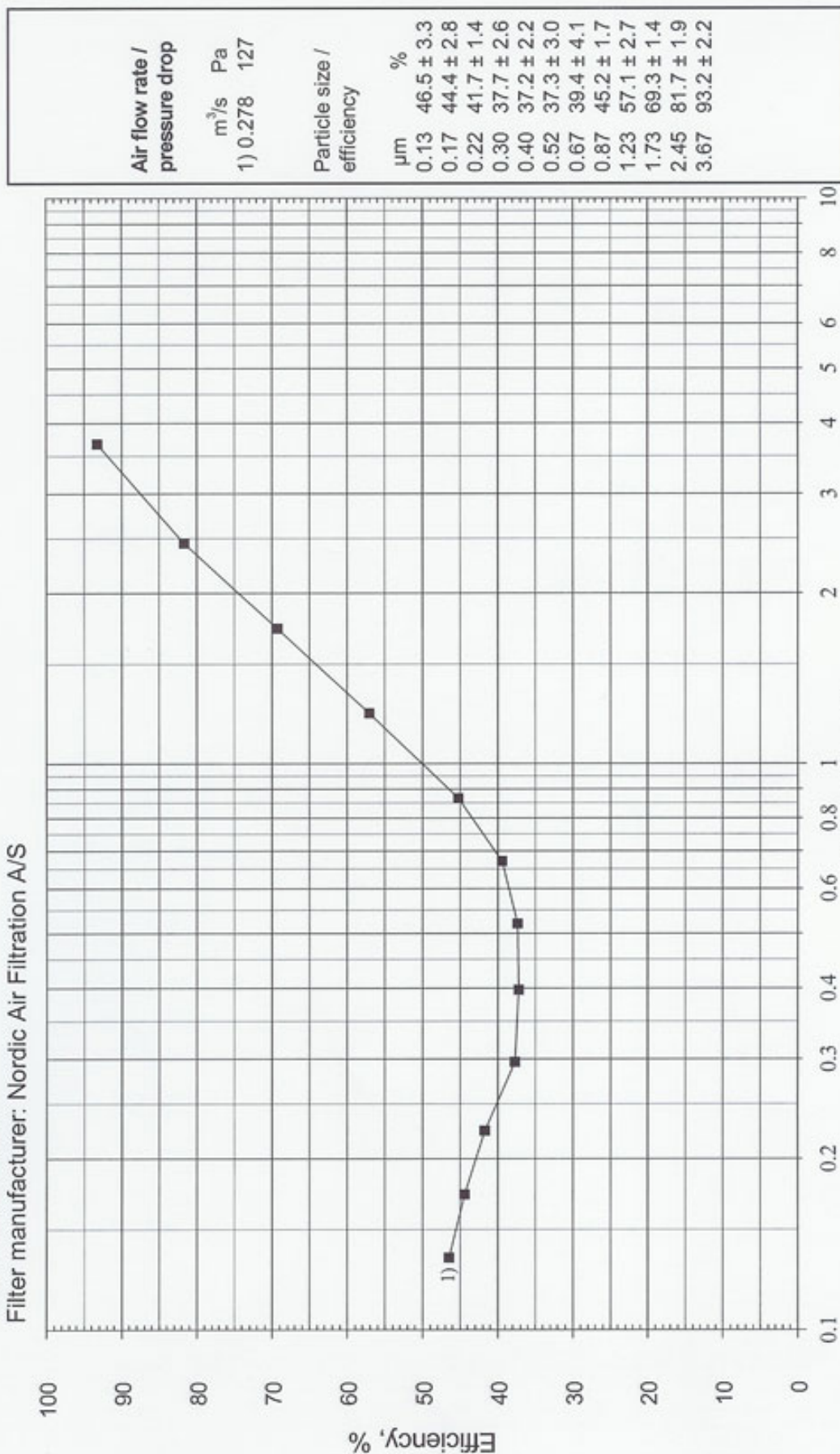
The test aerosol was DEHS and the bipolar aerosol charger (neutralizer) was a radioactive Am-241 source. The particle counter was of type PMS LAS-X.

The air flow rate was measured with a calibrated orifice plate with corner pressure tapings. The orifice plate has been calibrated against an orifice plate built according to ISO 5167:1980 /2/.

The instruments used in the measurements are presented in Appendix 2.

The Centre for Metrology and Accreditation has accredited our laboratory (no. T018, FINAS Accreditation) to perform the following measurements mentioned in this test report: EN 779:2002.

Air filter: CD325/660/806/10,M
 Initial efficiency
 EN779:2002
 Test no.: 051967
 Test aerosol: DEHS
 Filter manufacturer: Nordic Air Filtration A/S



Air flow rate /
 pressure drop
 m³/s Pa
 1) 0.278 127

Particle size /
 efficiency
 µm %

Instruments used

Instrument	Type code	Serial number	Calibration date	Used
Micromanometer	Alnor MP6KS	1020843	4.5.2005	X
	Alnor MP6KS	1020847	4.5.2005	X
Barometer	No. 9002588	-	5.1.2005	X
Hygrometer	Rotronic MS100TST	1188900/6	1.2.2005	X
Temperature meter	Nokeval 538-8	18455014	1.2.2005	X
Balance	Mettler PC8000-S2	A90263	1.2.2005	-
Particle counter	PMS LAS-X	26004-1091-380	27.9.2005	X
	Calibration check with 0.304 μm and 0.993 μm latex particles		5.10.2005	-
Dust feeder	ASHRAE 52-76	-	16.8.2005	-
Orifice plate	ϕ 216 / 610 x 610	-	8.9.1999	X
	ϕ 272 / 610 x 610	-	25.5.1999	-
	ϕ 90 / 610 x 610	-	17.3.2005	-