

Fraunhofer

TESTED[®] DEVICE

Hydroflex OHG PurMop EFB40 **Report No. HY 1404-705**

Statement of Qualification

Particle Emission





Statement of Qualification

Customer Hydroflex OHG

Am Weidenhäuser Bahnhof 8

35075 Gladenbach

Germany

Component tested

Working Place and Operator Category:

Subcategory: Work Equipment

Disposable mop cover PurMop EFB40 Product name:

(manufacturing date: 2/2013; color: white; Lot No.: 055004)

Random sampling of particle emissions (airborne) at representative sites

Standards/Guidelines:

Test devices:

Test environment parameters:

Test procedure parameters:

Based on VDI 2083-9.1, without 24-hour running-in period; VDI2083-9.2 The norm stated refers to the version that was applicable at the time of testing.

Optical particle counter:

LasAir II and LasAir III 110 with measuring ranges $\geq 0.1 \,\mu\text{m}$, $\geq 0.2 \,\mu\text{m}$, \geq 0.3 μ m, \geq 0.5 μ m, \geq 1.0 μ m and \geq 5.0 μ m

•	Cleanroom Air Cleanliness Class (according to ISO 14644-1):ISO 1
•	Airflow velocity:
•	Airflow pattern: vertical laminar flow

.....22°C±0.5°C

Test bench (according to ISO 9073-10)

•	Sample clamping position:	flat
•	Length between clamping points: I = 24	40 mm

Length between clamping points:	l = 240 mm
Motion cycle:	
– Linear compression:	s =120 mm
- Torsion:	180 '
Cycle time:	t = 15
Sampling chamber:	none
Duration of stress applied to test piece:	100 mir

• Distance between particle counting probe and test piece:............... 130 mm

Test result/Classification

When dry and under the specified test conditions, the disposable mop cover PurMop EFB40 fulfills the requirements up to air cleanliness class 5 according to ISO 14644 part 1.

Test parameter(s)	Air Cleanliness Class
Linear compression = 120 mm Torsion = 180° Cycle time t = 1s	5
Overall result	5

This is equivalent with ACP_c class 5 according to VDI 2083 part 9.2.



The measuring devices used for the qualification tests are calibrated at regular intervals; their results can be traced back to national and international standards. In cases where no national standards exist, the test procedure implemented complies with the technical regulations and norms applicable at the time of the test. The relevant documentation can be viewed on request at any time.

For further information about the test environment and parameters, please refer to the Fraunhofer IPA test report.

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

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Stuttgart, January 27, 2016

Place, date of first document issued

This document only applies to the named product in an unchanged state and is valid from the date of issue for a period of 5 years. The document can be verified under www.tested-device.com.

