

Fraunhofer

TESTED® DEVICE

Hydroflex OHG PurMop ML40 **Report No. HY 1404-705**

Statement of Qualification

Particle Emission





Statement of Qualification

Customer: Hydroflex OHG

Am Weidenhäuser Bahnhof 10

35075 Gladenbach

Germany

Component tested

Working Place and Operator Category:

Subcategory: Work Equipment

Product name: Mop cover PurMop ML40

(manufacturing date: 11/2013; color: white; Lot-No.: 113006)

Based on VDI 2083-9.1, without 24-hour running-in period.

The norms stated refer to the relevant editions applicable at the time of

• Cleanroom Air Cleanliness Class (according to ISO 14644-1):.......... ISO 1

 Airflow pattern: Vertical laminar flow

Random sampling of particle emissions (airborne) at representative sites

Standards/Guidelines:

Test devices:

the tests.

LasAir II 110 with measuring ranges $\geq 0.1 \,\mu\text{m}$, $\geq 0.2 \,\mu\text{m}$, $\geq 0.3 \,\mu\text{m}$, $\geq 0.5 \,\mu\text{m}$,

Optical particle counter:

 $\geq 1.0 \,\mu\text{m} \text{ und} \geq 5.0 \,\mu\text{m}$

Test environment parameters:

Test bench (according to ISO 9073-10) Test procedure parameters:

Motion cycle:

• Distance between particle counting probe and test piece:........... 130 mm Test result/Classification:

When dry and under the specified test conditions, the mop cover PurMop ML40 fulfills the requirements up to air cleanliness class 5 in accordance with ISO 14644-1. This is equivalent with ACP_c class 5 according to VDI 2083 part 9.2 (in preparation).



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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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

