

Fraunhofer

TESTED[®] DEVICE

Pfennig Reinigungstechnik GmbH Clino OneWay Standard PW **Report No. PF 2407-1538**

Statement of Qualification

Single product **Particle Emission**





Statement of Qualification • Single product

Customer Pfennig Reinigungstechnik GmbH

> Heubachstrasse 1 87471 Durach Germany

Component tested

Materials Category:

Subcategory: Consumables

Product name: Clino OneWay Standard PW

(manufacturing date: 2/2023; color: white; material: 100 % polyester; pre-

treatment: pre-washed; article number: 3500346)

Random sampling of particle emissions (airborne)

Standards/Guidelines:

Test devices:

Test environment parameters:

Test procedure parameters:

ISO 14644-1, -14; VDI 2083 Part 9.2, Part 9.1 (without 24-hour running-in period) The norms stated generally refer to the version valid at the time of the tests.

Optical particle counter:

Relative humidity:.....

LasAir II 110 with measuring ranges \geq 0.1 μ m, \geq 0.2 μ 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:	0.45 m/s
•	Airflow pattern:	vertical laminar flow
•	Temperature:	22°C±0.5°C

Test bench according to ISO 9073-10:

Sample clamping position:	flat
Length between clamping points:	230 mm
Motion cycle:	
– Linear compression s:	120 mm
– Torsion:	
Cycle time t:	1s
Sampling chamber:	
Duration of stress applied to test piece:	

Test result/Classification

When operated in a dry state using the given test parameters, the mop Clino OneWay Standard PW is suitable for use in cleanrooms up to the following Air Cleanliness Class according to ISO 14644-1:

Test parameter(s)	Air Cleanlines Class
Linear compression = 120 mm Torsion = 180° Cycle time t = 1s	4
Overall result	

This corresponds with ISO-ACP_c Class 4 according to VDI 2083 Part 9.2.

Please note: Transport damages, incorrect installation, aging behavior etc. can influence the test result.



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.

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.

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Place, date of first document issued

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

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