

DUPLICATE





Fraunhofer TESTED® DEVICE item Industrietechnik Door Lock X 8 Zn Report No. IT 2207-1335

Statement of Qualification

Single product
Particle Emission

Statement of Qualification • Single product

Customer	item Industrietechnik GmbH Friedenstrasse 107-109 42699 Solingen Germany	Test result / Classification		When operated under the specified test conditions, the Door Lock X 8 Zn is suitable for use in cleanrooms fulfilling the specifications of the following Air Cleanliness Class according to ISO 14644-1:	
			Test parameter(s)	Air Cleanlines Class	
Component tested			Pause between the cycles: 30s Cycles per minute: 2	8	
Category:	Cleanroom Facilities		Overall result		
Subcategory:	Wall/Ceiling/Floor/Door		Please note: Transport damages, incorrect installation, aging behavior, corrosion etc. can influence the test result.		
Product name:	Door Lock X 8 Zn (manufacturing date: 2022; article number: 0.0.652.66)				

Random sampling of particle emissions (airborne) at representative sites

Standards/Guidelines:	ISO 14644-1, -14 The norms stated generally refer to the version valid at the time of the term	sts.
Test devices:	Optical particle counter: LasAir II 110 and LasAir III 110 with measuring ranges $\geq 0.1 \mu m$, $\geq 0.2 \mu m$, $\geq 0.3 \mu m$, $\geq 0.5 \mu m$, $\geq 1.0 \mu m$ and $\geq 5.0 \mu m$	
Test environment parameters:	 Cleanroom Air Cleanliness Class (according to ISO 14644-1):	n/s low 5°C
Test procedure parameters:	 Pause between the cycles:	

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

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

IT 2207-1335

Department of Ultraclean Technology and Micromanufacturing

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Report No. current document

on behalf of RTRi Dr.-Ing. Frank Bürger, Project Manager Fraunhofer IPA



Fraunhofer IPA

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.

Stuttgart, January 25, 2023	
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Place, date of first document issued

Place, current date

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