





Fraunhofer TESTED[®] DEVICE igus GmbH TH3.25.2/26.070.8 Report No. IG 2304-1412

Statement of Qualification

Single product Particle Emission in Cleanroom (atmospheric)

Statement of Qualification • Single product

Customer	igus GmbH Spicher Strasse 1a 51147 Cologne Germany	Test result / Classification	When operated under the specified test 22 °C \pm 0.5 °C; relative humidity: 45 % \pm TH3.25.2/26.070.8 is suitable for use in ons of the following Air Cleanliness Class	5 %), the hygenic design e-chain cleanrooms fulfilling the specificati-	
			Test parameter(s)	Air Cleanlines Class	
Component tested			$v_1 = 0.5 \text{m/s}; a_1 = 1.0 \text{m/s}^2$	1	
Category:	Energy Supply		$v_2 = 1.0 \text{ m/s}; a_2 = 2.0 \text{ m/s}^2$	1	
Subcategory:	Cable Guiding Systems		$v_{_3} = 2.0 \text{m/s}; a_{_3} = 4.0 \text{m/s}^2$	1	
Product name:	hygenic design e-chain TH3.25.2/26.070.8 (manufacturing date: 9/13/2024; color: blue; article number: TH3.25.2/26.070.8; serial number: TH3.25)		Overall result Please note: Transport damages, incorre can influence the test result.	1 ct installation, aging behavior, etc.	
Random sampling of particle emissic	ons (airborne) at representative sites in cleanroom under atmospheric conditions				
Standards/Guidelines:	ISO 14644-1, -14 The norms stated generally refer to the version valid at the time of the tests.				
Test devices:	Optical particle counter: LasAir II 110 and LasAir III 110 with measuring ranges $\ge 0.1 \mu\text{m}$, $\ge 0.2 \mu\text{m}$, $\ge 0.3 \mu\text{m}$, $\ge 0.5 \mu\text{m}$, $\ge 1.0 \mu\text{m}$ and $\ge 5.0 \mu\text{m}$				
Test environment parameters:	 Cleanroom Air Cleanliness Class (according to ISO 14644-1):				
Test procedure parameters:	• Installation height:	and international standards. In cases where regulations and norms applicable at the time	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.		
				This document only	

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

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Department of Ultraclean Technology and Micromanufacturing

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Report No. current document

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	applies to the named
	product in its original state
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