





Fraunhofer TESTED® DEVICE Bosch Rexroth AG Ball Catch 3842524986 Report No. BO 2112-1289

Statement of Qualification

Single product Particle Emission

Statement of Qualification • Single product

Customer	Bosch Rexroth AG Löwentorstrasse 74 91136 Stuttgart Germany	Test result / Classification	When operated under the specified test conditions, the BALL CATCH P20/30/45, 3842524986 is suitable for use in cleanrooms fulfilling the specifications of the following Air Cleanliness Classes according to ISO 14644-1:	
			Test parameter(s)	Air Cleanlines Class
Component tested			Cycles: 1/min Installation position: horizontal	7
Category:	Working Place and Operator		Cycles: 1/min Installation position: vertical	7
Subcategory:	Equipment Parts		Overall result	7
Product name:	BALL CATCH P20/30/45, 3842524986 (manufacturing date: 9/2021; color: black; article number: 3842524986)		Please note: Transport damages, incorrebe behavior, etc. can influence the test res	

Random sampling of particle emissions (airborne) at representative sites

ISO 14644-1, -14 The norms stated generally refer to the version valid at the time of the tests.	
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	
 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 Relative humidity:45 % ± 5 % 	
• Weight:	

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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.

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

BO 2112-1289 Report No. first document

Department of Ultraclean Technology and Micromanufacturing

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Stuttgart, April 13, 2022	and is v
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