

Fraunhofer

TESTED[®] DEVICE

Bosch Rexroth AG Seal 3842554728

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

Component tested

Category: Working Place and Operator

Subcategory: Equipment Parts

Product name: SEAL 9X13 N6 TPE L=10M, 3842554728

(manufacturing date: 2/2020; color: RAL 7035 (signal gray); article number:

3842554728)

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 tests.

Test devices: Optical particle counter:

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

 \geq 0.3 μ m, \geq 0.5 μ m, \geq 1.0 μ m and \geq 5.0 μ m

Test procedure parameters:

• Cycles: 1/min

Cycle description:

 Cylinder opens:
 Pause:
 Cylinders closes:
 Pause:
 Pause:

 Pause:
 Parameter Set 1:

Installation position: horizontalParameter Set 2:Installation position: vertical

Test result/Classification

When operated under the specified test conditions, the SEAL 9X13 N6 TPE L=10M, 3842554728 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
Cycles: 1/min Installation position: horizontal	4
Cycles: 1/min Installation position: vertical	4
Overall result	4

Please note: Transport damages, incorrect installation, oil leakage, 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.

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

Department of Ultraclean Technology and Micromanufacturing

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