



valid until: January 21, 2031

Fraunhofer

TESTED[®] DEVICE

Bosch Rexroth AG
BSHP 25-SNS NRTVG lubricated
Report No. BO 2511-1694

Single product Particle Emission in Cleanroom (atmospheric)

Qualification Certificate

This is to certify that the product mentioned above, provided by

Bosch Rexroth AG
Schweinfurt, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number BO 2511-1694.

The Standard Ball Rail System BSHP 25-SNS NRTVG (lubricated, without seal) was assessed in compliance with ISO 14644-14. When operated under the specified test conditions (room temperature: $22\text{ °C} \pm 0.5\text{ °C}$; relative humidity: $45\% \pm 5\%$), it is suitable for use in cleanrooms fulfilling the specifications of the following Air Cleanliness Classes according to ISO 14644-1:

Test parameter(s)	Air Cleanliness Class
$ED_1 = 20\% ; v_1 = 0.1\text{ m/s} ; t_1 = 25280\text{ ms}$	5
$ED_2 = 60\% ; v_1 = 0.1\text{ m/s} ; t_2 = 4213\text{ ms}$	5
$ED_2 = 60\% ; v_2 = 0.4\text{ m/s} ; t_3 = 1078\text{ ms}$	6
$ED_2 = 60\% ; v_3 = 1.2\text{ m/s} ; t_4 = 431\text{ ms}$	8
Overall result	8

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

BO 2511-1694
Report No. first document

Stuttgart, January 21, 2026
Place, date of first document issued

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Report No. current document

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Place, current date

on behalf of 
Dr.-Ing. Frank Bürger, head of business unit Testing and Certification

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.

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