

Fraunhofer

TESTED[®] DEVICE

igus GmbH E4Q.34.100.100.0

Report No. IG 2401-1484

Single product Particle Emission Dry-Cleanroom

Qualification Certificate

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

igus GmbH Cologne, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number IG 2401-1484.

The energy chain E4Q.34.100.100.0 of the series E4Q.34 (color: black) was assessed in compliance with ISO 14644-14. When operated under the specified test conditions, it is suitable for use in cleanrooms (with a dew point of -40 °C \pm 2 °C and room temperature of 22 °C \pm 1 °C) fulfilling the specifications of the following Air Cleanliness Classes according to ISO 14644-1:

Test parameter(s)	Air Cleanliness Class
$v_1 = 0.5 \text{m/s}; a_1 = 1.0 \text{m/s}^2$	5
$v_2 = 1.0 \text{m/s}; a_2 = 2.0 \text{m/s}^2$	5
$v_3 = 2.0 \text{m/s}; a_3 = 4.0 \text{m/s}^2$	5
Overall result	5

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

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Report No. first document

Stuttgart, March 15, 2024

Place, date of first document issued

Report No. current document

Place, current dat

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

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

