

Fraunhofer

TESTED[®] DEVICE

igus GmbH E14.4.100.0

Report No. IG 2411-1575

Single product
Particle emission
in Dry-Cleanroom
with Pre-aging

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 2411-1575.

When operated under the specified test conditions (room temperature of $22\,^{\circ}\text{C} \pm 1\,^{\circ}\text{C}$; dew point: $-40\,^{\circ}\text{C} \pm 2\,^{\circ}\text{C}$), the E14.4.100.0 of the e-chain series E14 (color: black) is suitable for use in dry-cleanrooms fulfilling the specifications of the following Air Cleanliness Classes according to ISO 14644-1:

| Pre-aging, operation time in dry room: 10 months, 15.102.956 cycles | |
|--|----------------------|
| Test parameter(s) | Air Cleanlines Class |
| $v_1 = 0.5 \text{m/s}; a_1 = 1.0 \text{m/s}^2$ | 4 |
| $v_2 = 1.0 \text{m/s}; a_2 = 2.0 \text{m/s}^2$ | 4 |
| $v_3 = 2.0 \text{m/s}; a_3 = 4.0 \text{m/s}^2$ | 4 |
| Overall result | 4 |

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

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Stuttgart, February 3, 2025

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Report No. current document

Place, current date

on behalf of Or.-Ing. Frank Bürger, Project Manager Fraunhofer IPA



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.

www.tested-device.com

Detailed information and

The document can be verified under

