



valid until: March 28, 2030

# Fraunhofer

## TESTED<sup>®</sup> DEVICE

igus GmbH  
E6.29.060J.100.0

**Report No. IG 2402-1498**

Single product  
Particle emission  
in Dry-Cleanroom  
Aging behavior

### 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 2402-1498.

When operated under the specified test conditions (room temperature of 22 °C ± 1 °C; dew point: - 40 °C ± 2 °C), the cable guiding system E6.29.060J.100.0 of the series E6.29 is suitable for use in dry-cleanrooms fulfilling the specifications of the following Air Cleanliness Classes according to ISO 14644-1:

Aging behavior during continuous operation in Dry-Cleanroom, Test parameter(s)	Air Cleanlines Class
Test 1, new (after running-in period, 0 cycles)	4
Test 2, after 2 months (3.2 Mio. cycles)	4
Test 3, after 4 months (5.1 Mio. cycles)	4
Test 4, after 6 months (7.5 Mio. cycles)	5
Test 5, after 8 months (10.0 Mio. cycles)	5
Test 6, after 10 months (15.1 Mio. cycles)	5
Test 7, after 12 months (20.1 Mio. cycles)	4
<b>Overall result</b>	<b>5</b>

Test parameter: 0.5m/s, 1.0m/s<sup>2</sup>; 1.0m/s, 2.0m/s<sup>2</sup>; 2.0m/s, 4.0m/s<sup>2</sup>  
Please note: Transport damages, incorrect installation, aging behavior, corrosion etc. can influence the test result.

IG 2402-1498      Stuttgart, March 28, 2025  
Report No. first document      Place, date of first document issued

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Report No. current document      Place, current date

on behalf of   
Dr.-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. The document can be verified under [www.tested-device.com](http://www.tested-device.com).

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

DUPLICATE