

Fraunhofer TESTED® DEVICE

igus GmbH e-skin flat single pod system **Report No. IG 2110-1268**

Single product **Outgassing Behavior Inorganic Acids**

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.



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 2110-1268.

The outgassing behavior of the e-skin flat single pod system with CFCLEAN and support chain (color: white) at the stated temperatures was investigated according to VDI 2083 Part 17 and ISO 14644-15. Based on the outgassing rates determined for the specific units, the following equipment classification was made for the corresponding Contaminant Category:

Contaminant Category (x)	SER_¹⁾ 23°C [g/unit*s]	ISO-ACC ူClass (x) based on 23 °C
HF	< 2.9 x 10 ⁻¹²	< - 11.5
HCI	< 2.9 x 10 ⁻¹²	< - 11.5
HBr	< 2.9 x 10 ⁻¹²	< - 11.5
HNO ₃	< 2.9 x 10 ⁻¹²	< - 11.5
H ₃ PO ₄	< 2.9 x 10 ⁻¹²	< - 11.5
H ₂ SO ₄	< 2.9 x 10 ⁻¹²	< - 11.5

¹⁾SER_u: Unit-specific emission rate

IG 2110-1268

Report No. first document

Stuttgart, January 21, 2022 Place, date of first document issued

Report No. current document

Place, current date



Dr.-Ing. Frank Bürger, Project Manager Fraunhofer IPA