

## Fraunhofer

## TESTED® DEVICE

igus GmbH Igumid TE

Report No. IG 2110-1268

## Single product Outgassing Behavior Inorganic Acids

## **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 2110-1268.

The outgassing behavior of the tile made from igumid TE material (color: black) 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 surfaces, the following material classification was made for the corresponding Contaminant Category:

Contaminant Category (x)	<b>SER<sub>a</sub> <sup>1)</sup> 23°C</b> [g/m²s]	<b>SER<sub>a</sub><sup>1)</sup> 90°C</b> [g/m²s]	ISO-ACC <sub>m</sub> Class (x) based on 23°C
HF	< 2.9 x 10 <sup>-9</sup>	< 2.9 x 10 <sup>-9</sup>	< -8.5
HCI	< 2.9 x 10 <sup>-9</sup>	< 2.9 x 10 <sup>-9</sup>	< -8.5
HBr	< 2.9 x 10 <sup>-9</sup>	< 2.9 x 10 <sup>-9</sup>	< -8.5
HNO <sub>3</sub>	< 2.9 x 10 <sup>-9</sup>	< 2.9 x 10 <sup>-9</sup>	< -8.5
H <sub>3</sub> PO <sub>4</sub>	< 2.9 x 10 <sup>-9</sup>	< 2.9 x 10 <sup>-9</sup>	< -8.5
H <sub>2</sub> SO <sub>4</sub>	< 2.9 x 10 <sup>-9</sup>	< 2.9 x 10 <sup>-9</sup>	< -8.5

1) SER<sub>a</sub>: Area-specific emission rate

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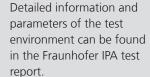
Stuttgart, January 21, 2022

Place, date of first document issued

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on behalf of Carlos Project Manager Fraunhofer IPA



www.tested-device.com.

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

