



valid until: May 22, 2029

Fraunhofer

TESTED[®] DEVICE

KUKA Deutschland GmbH
LBR iisy 11 R1300 CR
Report No. KU 2303-1404

Single product Outgassing Behavior Inorganic Acids

Qualification Certificate

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

KUKA Deutschland GmbH
Augsburg, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number KU 2303-1404.

The outgassing behavior of the LBR iisy 11 R1300 CR at rest (color: white and orange) at the stated temperature was investigated according to VDI 2083 Part 17 and ISO 14644-15. Based on the outgassing rates determined for the specific units, the following material classification was made for the corresponding Contaminant Category:

Contaminant Category (x)	SER _u ¹⁾ 23 °C [g/unit · s]	ISO-ACC _e Class (x) based on 23 °C
HF	< 7.0 x 10 ⁻⁹	< -8.2
HCl	< 7.0 x 10 ⁻⁹	< -8.2
HBr	< 7.0 x 10 ⁻⁹	< -8.2
HNO ₃	< 7.0 x 10 ⁻⁹	< -8.2
H ₃ PO ₄	< 7.0 x 10 ⁻⁹	< -8.2
H ₂ SO ₄	< 7.0 x 10 ⁻⁹	< -8.2

¹⁾SER_u: Unit-specific emission rate

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Report No. first document

Stuttgart, May 22, 2024
Place, date of first document issued

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Report No. current document

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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.

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