

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_u¹) 23°C [g/unit·s]	ISO-ACC _e Class (x) based on 23°C
HF	< 7.0 x 10 ⁻⁹	< -8.2
HCI	< 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_{..}: Unit-specific emission rate

KU 2303-1404

Report No. first document

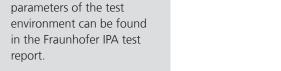
Stuttgart, May 22, 2024

Place, date of first document issued

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.

The document can be verified under

www.tested-device.com.

Detailed information and

