





## Fraunhofer TESTED® DEVICE Kawasaki Robotics GmbH Chrome Coating 7770377903 Report No. KA 2311-1476

Statement of Qualification

Single product Hydrogen Peroxide Absorption/Desorption

## **Statement of Qualification** • Single product

## Customer

Category:

Subcategory

Product name:

Methodics:

Hydrogen peroxide absorption / desorption

Air-conditioned laboratory environment:

Test procedure parameters:

**Component tested** 

Kawasaki Robotics GmbH Im Taubental 32 41468 Neuss Germany

Chrome Coating 7770377903

Materials

Metalls

7770377903)

VDI 2083 Part 20

Test result/Classification

obtained:

Øk-v 0.2

The k-value represents the required decay time to reduce the hydrogen peroxide vapor concentration measured at the beginning of the aeration phase to one tenth of the original concentration. The material classification is based on three separate measurements. The blank value of the test setup is subtracted from each measurement value. The medium k-value is transferred to the following classification:

• ≤ 5 min:.... • > 5-≤ 15 mi

- > 15-≤ 60 m
- > 60 min:... Not determi

The measuring devices used for the qualification tests are calibrated at regular intervals; their results can be traced back to national and international standards. In cases where no national standards exist, the test procedure implemented complies with the technical regulations and norms applicable at the time of the test. The relevant documentation can be viewed on request at any time.

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

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

KA 2311-1476 Report No. first document

Department of Ultraclean Technology and Micromanufacturing

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Report No. current document

The norms stated generally refer to the version ve	alid at the time of the tests.
Temperature:	22°C±0.5°C
Emission test cell volume:	
• Exposed surface area:	
• H <sub>2</sub> O <sub>2</sub> vapor concentration:	
Exposure duration:	60 min
• Air exchange rate during aeration:	100 min <sup>-1</sup>
• Test cell.	23°C+2°C

(manufacturing date: 9/28/2023; material: chrome; article number:





The hydrogen peroxide absorption/desorption of Chrome Coating 7770377903 was investigated with the stated test parameters. Using the procedure laid down in VDI 2083 Part 20, the following test result was

<b>alue</b> n]	Standard deviation [min]	Classification
27	0.18	non-absorptive

	non-absorptive
iin:	
min:	medium
	slow
inable:	

The k-value can only be used to make a comparative material assessment. Provided the maximum hydrogen peroxide vapor concentration during material exposure is within the defined limit, it does not affect the calculated

Place, date of first document issued

Place, current date

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.