





Fraunhofer TESTED® DENSO WAVE Inc. SUS630-H900 (Cutting) Report No. DE 2006-1161

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

DENSO WAVE Inc. 1, Yoshiike, Kusaki, Agui-cho, Chita-gun 470-2297 Aichi Japan

Materials

Metals

SUS630-H900 (Cutting)

Test result/Classification

The hydrogen peroxide absorption/desorption of SUS630-H900 (Cutting) was investigated with the stated test parameters. Using the procedure laid down in VDI 2083 Part 20, the following test result was obtained:

Øk-v 0

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 determine

k-values.

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.

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Department of Ultraclean Technology DE 2006-1161 Report No. current document

> on behalf of Ron Bin Dr.-Ing. Frank Bürger, Project Manager Fraunhofer IPA

VDI 2083 Part 20 The norms stated generally refer to the version valid a	at the time of the tests.
Temperature:	22°C±0.5°C
Emission test cell volume: Exposed surface area:	

(manufacturing date: 4/2020; serial number: PLATE_2020-03)

 Air exchange rate during aeration: .. 50 min⁻¹





a lue n]	Standard deviation [min]	Classification
	0	non-absorptive

non-absorptive	
fast	in:
medium	nin:
slow	
catalytic activity	nable: .

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

Stuttgart, July 15, 2015

Place, date of first document issued

Stuttgart, November 4, 2020 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 current date the document was issued. The document can be verified under www.tested-device.com.