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TESTED[®] DEVICE

DENSO WAVE Inc. SUS630-H900 (Grinding) Report No. DE 2006-1161

Statement of Qualification

Single product

Chemical Resistance





Statement of Qualification • Single product

Customer DENSO WAVE Inc.

1, Yoshiike, Kusaki, Agui-cho, Chita-gun

470-2297 Aichi

Japan

Component tested

Category: Materials

Subcategory: Metals

Product name: SUS630-H900 (Grinding)
(manufacturing date: 4/2020; serial number: PLATE_2020-02)

Chemical resistance test

Standards/Guidelines:

Testing equipment:

Test environment parameters:

Test procedure parameters:

VDI 2083 Part 17; ISO 2812-1; ISO 4628-1 The norms stated generally refer to the version valid at the time of the tests.

- Microscope
- Camera

Immersion method:

mineratori metrod.	
Chemicals:	Formalin 37 %
	Ammoniac 25 %
	Hydrogen peroxide 30 %
	Sulfuric acid 5 %
	Phosphoric acid 30 %
	Peracetic acid 15 %
	Hydrochloric acid 5 %
	Isopropanol 100 %
	Sodium hydroxide 5 %
	Sodium hypochlorite 5 %
	1h, 3h, 6h, 24h

Test result/Classification

The chemical resistance of SUS630-H900 (Grinding) was classified according to ISO 4628-1 and VDI 2083 Part 17 with the following result:

Chemical resistance	1 h	3 h	6h	24h
Formalin 37 %	0	0	0	0
Ammoniac 25 %	0	0	0	0
Hydrogen peroxide 30 %	0	0	0	0
Sulfuric acid 5 %	0	0	0	0
Phosphoric acid 30 %	0	0	0	0
Peracetic acid 15 %	0	0	0	0
Hydrochloric acid 5 %	0	0	0	2
Isopropanol 100 %	0	0	0	0
Sodium hydroxide 5 %	0	0	0	0
Sodium hypochlorite 5 %	0	0	0	1

The classification is based on a worst-case consideration. In the process, damage was assessed according to the classification system used in ISO 4628-1 and VDI 2083 Part 17:

0 = excellent 3 = weak 1 = very good 4 = very weak2 = good 5 = none

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

Department of Ultraclean Technology and Micromanufacturing

Nobelstrasse 12 70569 Stuttgart Germany DE 1409-725

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on behalf of Roman

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.

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