

Fraunhofer

TESTED® DEVICE

DENSO WAVE Inc. SUS630-H900 (Grinding) **Report No. DE 1409-725**

Statement of Qualification

Chemical Resistance





Statement of Qualification

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: 7/2014)

Chemical resistance test

Standards/Guidelines:

Testing equipment:

Test environment parameters:

Test procedure parameters:

ISO 2812-1

The norms stated refer to the relevant editions applicable at the time of the tests

- Microscope
- Camera

Temperature: $22 \,^{\circ}\text{C} \pm 0.5 \,^{\circ}\text{C}$

- Immersion method

Test result/Classification

Chemical resistance	1h	3 h	6 h	24 h
Formalin 37 %	0	0	0	0
Ammoniac 25 %	0	0	0	0
Hydrogen peroxide 30 %	0	0	0	0
Sulphuric 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	2
Classification	0/excellent			

Chemical resistance has been classified on the basis of a worst-case consideration. In the process, damage was assessed according to the classification system used in ISO 4628-1 and VDI 2083-17:

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.

For further information about the test environment and parameters, please refer to the Fraunhofer IPA test report.

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

Department of Ultraclean Technology and Micromanufacturing

Nobelstrasse 12 70569 Stuttgart Germany Stuttgart, July 15, 2015

Place, date of first document issued

Place, current date

A Melo Soumes

This document only applies to the named product in an unchanged state and is valid from the date of issue for a period of 5 years. The document can be verified under **www.tested-device.com**

