

# DUDATE





# Fraunhofer TESTED<sup>®</sup> DENSO WAVE Inc. SCS16 (buff) 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

Test result/Classification

### **Component tested**

Category:	Materials
Subcategory:	Metals
Product name:	SCS16 (buff) (manufacturing date: 7/2014)

**Fraunhofer** 

**IPA** 

### **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.
<ul><li>Microscope</li><li>Camera</li></ul>
Temperature:
Immersion method     Chemicals:
Sulphuric acid 5 % Phosphoric acid 30 % Peracetic acid 15 % Hydrochloric acid 5 %
<ul> <li>Isopropanol 100 %</li> <li>Sodium hydroxide 5 %</li> <li>Sodium hypochlorite 5 %</li> <li>Incubation time:</li></ul>

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.

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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

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nical resistance	1h	3 h	6 h	24 h
alin 37 %	0	0	0	0
noniac 25 %	0	0	0	0
ogen peroxide 30 %	0	0	0	0
nuric acid 5 %	0	0	0	0
phoric acid 30 %	0	0	0	0
cetic acid 15 %	0	0	0	0
ochloric acid 5 %	0	2	2	3
opanol 100 %	0	0	0	0
um hydroxide 5 %	0	0	0	0
um hypochlorite 5 %	0	0	0	0
sification	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 weak
2 = good	5 = none

Stuttgart, July 15, 2015

Place, date of first document issued

Place, current date

Ado Somme

Udo Gommel, Project Manager Frau

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