





Fraunhofer TESTED® DENSO WAVE Inc. AC4C-T6 (buff + plating) Report No. DE 2006-1161

Statement of Qualification

Single product Chemical Resistance

Statement of Qualification • Single product

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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:	AC4C-T6 (buff+plating) (manufacturing date: 4/2020; serial number: PLATE_2020-01)

Fraunhofer

IPA

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
Temperature:
Immersion method:
Chemicals:
Ammoniac 25 %
Sulfuric acid 5 %
Phosphoric acid 30 %
Peracetic acid 15 %
Isopropanol 100 %
Sodium hypochlorite 5 %
Incubation time:

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 = excellent1 = very good2 = good

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

DE 1409-725 Report No. first document

DE 2006-1161

Department of Ultraclean Technology and Micromanufacturing

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Report No. current document

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

The chemical resistance of AC4C-T6 (buff + plating) was classified according to ISO 4628-1 and VDI 2083 Part 17 with the following result:

> 3 = weak 4 = very weak 5 = none

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.