

Fraunhofer

TESTED[®] DEVICE

ISOONE OPMI OPAL DIFFUSER **Report No. LA 2411-1574**

Statement of Qualification

Single product

Chemical Resistance





Statement of Qualification • Single product

Customer La Manufacture de France SAS -ISOONE

18 rue Jean Monnet 3124 Saint-Jean

France

Tested product

Category: Materials

Subcategory: Plastics

Product name: OPMI OPAL DIFFUSER

(manufacturing date: 5/5/2025; color: transparent; article number: ISOSPE-

22626ACC)

Chemical resistance test

Standards/guidelines:

Test 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: ..22°C±0.5°C Spot method: • 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



• Incubation time:

Test result/Classification

The chemical resistance of OPMI OPAL DIFFUSER 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	1
Hydrochloric acid 5 %	0	0	0	0
Isopropanol 100 %	0	0	0	0
Sodium hydroxide 5 %	0	0	0	0
Sodium hypochlorite 5 %	0	0	0	0

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

Business unit Testing and Certification

Nobelstrasse 12 70569 Stuttgart Germany LA 2411-1574
Report No. first document

Stuttgart, August 14, 2025

document Place, date of first document issued

Report No. current document

TRI

on behalf of Dr.-Ing. Frank Bürger, head of business unit Testing and Certification

This document only applies to the named product in its original state and is valid for a period of 5 years from the date the first document was issued. The document can be verified under www.tested-device.com.