



# Fraunhofer

## TESTED<sup>®</sup> DEVICE

Kawasaki Robotics GmbH  
Washer M3

**Report No. KA 2505-1627**

Single product  
Chemical  
Resistance

## Qualification Certificate

This is to certify that the product mentioned above, provided by

**Kawasaki Robotics GmbH**  
Neuss, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE  
bearing the report number KA 2505-1627.

The chemical resistance of Washer M3 (Seal) was classified according to ISO 4628-1 and VDI 2083 Part 17 with the following result:

Chemical resistance (24 h)			
Formalin 37 %	excellent	Hydrochloric acid 5 %	very weak
Ammoniac 25 %	excellent	Isopropanol 100 %	excellent
Hydrogen peroxide 30 %	excellent	Sodium hydroxide 5 %	excellent
Sulfuric acid 5 %	excellent	Sodium hypochlorite 5 %	excellent
Phosphoric acid 30 %	excellent		

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](http://www.tested-device.com).

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.

KA 2505-1627  
Report No. first document

Stuttgart, June 6, 2025  
Place, date of first document issued

--  
Report No. current document

--  
Place, current date

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



**Fraunhofer**  
IPA