



Fraunhofer

TESTED[®] DEVICE

KUKA Roboter GmbH
Stainless steel 1.4021
Report No. KU 1610-849

Chemical Resistance

Qualification Certificate

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

KUKA Roboter GmbH
Augsburg, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number KU 1610-849.

The chemical resistance of stainless steel 1.4021 was classified according to ISO 4628-1 and VDI 2083-17 with the following results:

Chemical resistance			
Formalin 37 %	excellent	Sodium hydroxide 5 %	excellent
Ammoniac 25 %	excellent	Sodium hypochlorite 5 %	very weak
Hydrogen peroxide 30 %	excellent	Ethanol 99.5 %	excellent
Sulfuric acid 5 %	none	Sodium hydroxide 20 %	excellent
Phosphoric acid 30 %	none	Elma Clean 100 5 %	excellent
Peracetic acid 15 %	excellent	Microbac food 5 %	excellent
Hydrochloric acid 5 %	none	Desifor forte 5 %	excellent
Isopropanol 100 %	excellent	Sodosil RA08 15 %	excellent

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

Stuttgart, December 14, 2016

on behalf of 
Frank Bürger, Project manager Fraunhofer IPA

The validity of this certificate applies only to the mentioned product in this particular condition for a duration of 5 years.
Further information:
www.tested-device.com

DUPLICATE