





## Fraunhofer TESTED® DEVICE Jung Gummitechnik GmbH Jugitec Pharma Plus Report No. JU 1504-756

Statement of Qualification

**Chemical Resistance** 

## **Statement of Qualification**

## **Customer:**

**Component tested** 

Jung Gummitechnik GmbH Robert-Bosch-Straße 12 64683 Einhausen Germany

Test result/Classification: (in acc. with ISO 4628-1/VDI 2083-17)

		Phosph
Category:	Materials	
		Peracet
Subcategory:	Consumables	Hydroc
Product name:	Jugitec Pharma Plus (manufacturing date: 3/2015; color: black/white; type: 16BL05 230F;;	lsoprop
	charge number: 19887)	Sodium
		Sodium
Chemical resistance test		Classif
Standards/Guidelines:	ISO 2812-1	Chemica

Standards/Guidelines:	ISO 2812-1 The norm stated refers to the relevant editions applicable at the time of the tests.
Testing equipment:	<ul><li>Microscope</li><li>Camera</li></ul>
Test environment parameters:	Temperature:
Test procedure parameters:	Immersion method
	Chemicals: Formalin 37 %
	Ammoniac 25 %
	Phosphoric acid 30 %
	Peracetic acid 15 %
	Hydrochlaric acid 5 %

.. Hydrochloric acid 5 % .....Isopropanol 100 % .... Sodium hydroxide 5 % Incubation time: .....1h, 3h, 6h, 24h

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

Department of Ultraclean Technology and Micromanufacturing

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Place, current date



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	
ohoric acid 30 %	0	0	0	0	
etic acid 15 %	1	2	2	2	
ochloric acid 5 %	0	0	0	0	
opanol 100 %	1	2	2	4	
ım hydroxide 5 %	0	0	0	0	
um hypochlorite 5 %	0	0	0	0	
ification	1/very good				

nical 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

Remark: Only the side of the glove that will face chemicals during the use has been analyzed.

Stuttgart, May 26, 2015

Place, date of first document issued

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