



Fraunhofer

TESTED[®]
DEVICE

SG Armaturen AS
Interpon 610 AC
Report No. SG 2303-1398

DUPLICATE

Statement of
Qualification

Single product
Hydrogen Peroxide
Absorption/Desorption

Customer	SG Produktion A/S Egestubben 16-26 5270 Odense N Denmark
Component tested	
Category:	Materials
Subcategory:	Coatings
Product name:	Interpon 610 AC (manufacturing date: 3/2023; color: white; article number: 0000104375)

Hydrogen peroxide absorption / desorption	
Methodics:	VDI 2083 Part 20 The norms stated generally refer to the version valid at the time of the tests.
Air-conditioned laboratory environment:	Temperature:22 °C ± 0.5 °C
Test procedure parameters:	<ul style="list-style-type: none">Emission test cell volume: 16.5 cm³Exposed surface area: 33 cm²H₂O₂ vapor concentration: 50 ± 20 ppm(V)Exposure duration: 60 minAir exchange rate during aeration:..... 100 min⁻¹Test cell:23 °C ± 2 °C

Test result / Classification

The hydrogen peroxide absorption/desorption of Interpon 610 AC was investigated with the stated test parameters. Using the procedure laid down in VDI 2083 Part 20, the following test result was obtained:

Ø k-value [min]	Standard deviation [min]	Classification
2.0	0.1	non-absorptive

The k-value represents the required decay time to reduce the hydrogen peroxide vapor concentration measured at the beginning of the aeration phase to one tenth of the original concentration. The material classification is based on three separate measurements. The blank value of the test setup is subtracted from each measurement value. The medium k-value is transferred to the following classification:

- ≤ 5 min: non-absorptive
- > 5 - ≤ 15 min: fast
- > 15 - ≤ 60 min: medium
- > 60 min: slow
- Not determinable: catalytic activity

The k-value can only be used to make a comparative material assessment. Provided the maximum hydrogen peroxide vapor concentration during material exposure is within the defined limit, it does not affect the calculated k-values.

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	SG 2303-1398 Report No. first document	Stuttgart, November 16, 2023 Place, date of first document issued
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Nobelstrasse 12 70569 Stuttgart Germany	on behalf of Dr.-Ing. Frank Bürger, Project Manager Fraunhofer IPA	