

# Fraunhofer

## TESTED<sup>®</sup> DEVICE

SG Armaturen AS KENT Rotabond 2000 **Report No. SG 2303-1398** 

Statement of Qualification

Single product **Hydrogen Peroxide Absorption/Desorption** 





### **Statement of Qualification** • Single product

**Customer** SG Produktion A/S

Egestubben 16-26 5270 Odense N Denmark

**Component tested** 

Category: Materials

Subcategory: Lubricants/Sealants/Adhesives

Product name: KENT Rotabond 2000

(manufacturing date: 5/2023; color: white; article number: 0000104324)

Hydrogen peroxide absorption / desorption

Methodics:

Air-conditioned laboratory environment:

Test procedure parameters:

VDI 2083 Part 20

The norms stated generally refer to the version valid at the time of the tests.

Emission test cell volume:	16.5 cm <sup>3</sup>
Exposed surface area:	33 cm²
• H <sub>2</sub> O <sub>2</sub> vapor concentration:	50 ± 20 ppm (V)
Exposure duration:	60 min
Air exchange rate during aeration:	100 min <sup>-1</sup>

### Test result/Classification

The hydrogen peroxide absorption/desorption of KENT Rotabond 2000 was investigated with the stated test parameters. Using the procedure laid down in VDI 2083 Part 20, the following test result was obtained:

<b>Ø k-value</b> [min]	Standard deviation [min]	Classification
153.9	4.5	slow

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:	
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

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