

Bundesanstalt für Materialforschung und -prüfung

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Report

on Evaluation of an Adhesive for Gaseous Oxygen Service

Reference Number

II-661/2008 E

Copy

1. Copy of 2 Copies

1 Application

Customer

WEICON GmbH & Co. KG Königsberger Straße 255

48157 Münster GERMANY

Order Date

March 4, 2008

Receipt of Order

March 14, 2008

Test Samples

Adhesive WEICONLOCK AN 305-77 as a thread sealant for use in gaseous oxygen piping, valves and sittings, and components at temperatures up to 60 °C. For this evaluation a test sample has not been required.

BAM-Order No. II.1/49 200

Base of the evaluation

BAM Test Report 1432/95; 4-755 und II-717/2007 E

DIN EN 1797: 2002-02

"Cryogenic Vessels - Gas/Material Compatibility"

Annex of pamphlet M 034-1 (BGI 617-1)

"Liste der nichtmetallischen Materialien die von der Bundesanstalt für Materialforschung und –prüfung (BAM) zum Einsatz in Anlageteilen für Sauerstoff als geeignet

befunden worden sind.",

to pamphlet M 034 "Sauerstoff" (BGI 617)

Berufsgenossenschaft der chemischen Industrie

Edition: October 2007;

according chapter 3.17 "Gleitmittel und Dichtwerkstoffe" to rule BGR 500 "Betreiben von Arbeitsmitteln" part 2, chapter 2.32 "Betreiben von Sauerstoffanlagen", Edition:

March 2006.

All pressures of this report are excess pressures.

This report consists of page 1 to 2.

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In case a German version of the test report is available, exclusively the German version is binding.



2 Documents and Test Samples

The following documents and samples were submitted to BAM:

- 1 Test Application of March 4, 2008
- 1 Copy of BAM test report II-717/2007 E
- 1 Copy of BAM test report 4045/96 II-2402

3 Evaluation

The adhesive WEICONLOCK AN 305-77 has already been tested and evaluated as a adhesive for use in valves and fittings or other components for gaseous oxygen service under reference number 1432/95, 4-755 in 1995, and reference number II-717/2007 E in 2007.

On basis of these test results, there are no objections with regard to technical safety to use the adhesive WEICONLOCK AN 305-77 in valves and fittings or other components for gaseous oxygen service at following conditions:

maximum temperature	maximum pressure
60 °C	10 bar

This report does not cover the use of the adhesive WEICONLOCK AN 305-77 for liquid oxygen service. A particular test for reactivity with liquid oxygen needs to be carried out to evaluate the compatibility of the lubricant with liquid oxygen.

4 Comments

This evaluation refer exclusively to the test results and evaluations of the tested material in 1995 and 2007.

Products that have been tested by us, and which are on the market, shall be marked according to our evaluation in the BAM test report. A label on a product saying that a BAM test has been performed and (or) citing our reference number, only, is not tolerable. The use of the product and its safe operating conditions must also be given.

It shall be clear that the product may be used only for gaseous oxygen service. The maximum safe oxygen pressure of the product and its maximum use temperature as well as other restrictions in use shall be given.

Federal Institute for Materials Research and Testing (BAM) 12200 Berlin, April 14, 2008

Division II.1

"Gases, Gas Plants"

Dr. Chr. Binder

Head of Working Group

Working Group

"Safe Handling of Oxygen"

Dipl.elng. K. Arlt

Engineer in Charge

Copies:

1. Copy: WEICON GmbH & Co. KG

2. Copy: BAM - Working Group "Safe Handling of Oxygen"