

**BAM****Bundesanstalt für
Materialforschung
und -prüfung**

Report

on Testing a Gasket Material for Reactivity with Oxygen

Reference Number 2-813/2013 I E

Copy 1. Copy of 2 Copies

Customer SGL CARBON GmbH
Postfach 11 93
86400 Meitingen
Germany

Order Date March 1, 2013

Receipt of Order March 8, 2013

Test Samples SIGRAFLEX MF (V...11Z2MF), Batch 12050023, for use as a gasket material in flanged connections in piping, valves and fittings or other components for gaseous oxygen service up to 130 bar and temperatures up to 250 °C;
BAM Order-No. 2.1/51 485

Receipt of Samples March 8, 2013

Test Date May 23, 2013 to September 20, 2013

Test Location BAM - Working Group "Safe Handling of Oxygen";
building no. 41, room no. 073 and no. 120

Test Procedure or Requirement According to DIN EN 1797: 2002-02
„Cryogenic Vessels - Gas/Material Compatibility“
ISO 21010: 2004-07
„Cryogenic Vessels - Gas/Material Compatibility“
Annex of pamphlet M 034-1 (BGI 617-1)
"List of nonmetallic materials compatible with oxygen by BAM Federal Institute for Material Research and Testing.", by German Social Accident Insurance Institution for the raw materials and chemical industry,
Edition: March 2013;
Rule BGR 500 "Betreiben von Arbeitsmitteln" part 2, chapter 2.32 "Betreiben von Sauerstoffanlagen", paragraph 3.17 "Lubricants and sealing materials",
Edition: April 2008.

All pressures of this report are excess pressures.
This test report consists of page 1 to 5 and annex 1 to 3.

This test report may only be published in full and without any additions. A revocable permission in writing has to be obtained from BAM for any amended reproduction of this certificate or the publication of any excerpts. The test results refer exclusively to the tested materials.

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

