



CONTROLLER 3 EVO OXYGEN BAM

Composition

The **CONTROLLER 3 EVO OXYGEN BAM** is comprised of **GR80SGR OXY** braided rings, consisting of expanded graphite wires with a dedicated metal reinforcement. This material ensures minimal weight loss even in the most extreme conditions, meeting the stringent requirements of **EN14772** - section 6.7. BAM approved No. 2-28/2015 E for use with both liquid and gaseous oxygen.

Characteristics

The **CONTROLLER 3 EVO OXYGEN BAM** offers a unique combination of strength and durability, with a low friction coefficient ensuring smooth and reliable operation. Its reinforced structure and the quality of the graphite used make it ideal for high-temperature and pressure applications.

Applications

Specifically designed for industrial valves in oxygen service, the **CONTROLLER 3 EVO OXYGEN BAM** is the ideal choice to ensure effective stem sealing in critical environments. It provides superior performance and exceptional durability, making it essential for oxygen-sensitive industrial applications.

Tech Data

Maximum Temperature °C	Maximum Oxygen Pressure bar
up to 60	350
>60 up to 300	220

- Never use the product to the maximum temperature and pressure associated. Consult the manufacturer for further information



CONTROLLER 3 EVO OXYGEN BAM

The **CONTROLLER 3 EVO OXYGEN BAM** is an innovative gland packing designed specifically for industrial valves in oxygen service. Made from high-quality expanded mineral graphite and reinforced with special metal, this product offers reliable and safe performance in oxygen environments.

Report
on Testing a Normative Material
for Reactivity with Gaseous Oxygen and with Liquid Oxygen

Reference Number 2-28/2015 E

Copy 1st Copy of 2 Copies

Customer CARRARA S.p.A.
Via Provinciale, 1/E
25030 Adro (BS)
Italy

Order Date December 17, 2014

Reference Order No. 1411897

Receipt of Order January 5, 2015

Test Samples Sealing material die-formed braided flexible graphite
packing ZOR80SGR OXY, batch 1422509;
BAM Order No. 2-152-402

Receipt of Samples January 5, 2015

Test Date February 12 to May 29, 2015

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 21010:2014
"Cryogenic Vessels - Gas/Material Compatibility"
Annex of pamphlet M 034-1 (BGI 617-1)
List of normative materials compatible with oxygen
by BAM Federal Institute for Material Research and Testing,
by Bundesgesellschaft für Materialforschung und -prüfung,
Edition: March 2014.
TRGS 407: Technical Rules for Hazardous Substances
"Transportieren mit Gasen - Gefährdungsbeurteilung"
chapter 3 "Informationsmittlung und
Gefährdungsbeurteilung" and
chapter 4 "Sicherheitsmaßnahmen bei Tätigkeiten mit Gasen"
Edition: June 2013

Safety Related Maximum Operating Conditions See chapter 4 "Summary and Evaluation"

All pressures of this report are excess pressures.
This test report consists of page 1 to 5 and annex 1 to 4.
The test report shall be the property of the BAM Federal Institute for Material Research and Testing. The test results shall be exclusively for the tested material.
In case a German version of the test report is available, exclusively the German version is binding.

H. Safety in technology and chemistry



TEST REPORT



The information in this publication, as well as any additional information provided to users, is based on experience and is shared to the best of our current knowledge. However, due to numerous factors beyond our knowledge and control that may affect the use of these products, no warranties are provided or implied regarding this information. The operating limits presented in this publication do not imply that these values can be applied simultaneously. Do not use the product at the maximum temperature and pressure values simultaneously. The maximum temperature is suitable only for short-term exposure under specific conditions. Specifications are subject to change without prior notice. The picture in the DS may not accurately depict the exact color and/or markings of the product.



Carrara S.p.A.,
Via Provinciale 1/E - 25030 Adro - BS - Italia
tel. +39 030 7451121 / fax +39 030 7451130
www.carrara.it - info@carrara.it