



# 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	1 <sup>st</sup> 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 "Informationsermittlung 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 user must refer to the annexes in the test report and to the annexes in writing to be able to use the product in the intended application of this certificate or the publication of any results. The test results refer exclusively to the tested material. In case a German version of the test report is available, exclusively the German version is binding.	



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.



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