



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 at its maximum rated temperature and pressure. Consult the manufacturer for further information.



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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 st 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 ZGR80SGR OXY, batch 1422509, BAM Order No.: 2_152_422	
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 nonmetallic materials compatible with oxygen by BAM Federal Institute for Material Research and Testing", by Bundesgesellschaft für Material- und chemische Industrie, Edition: March 2014. TRGS 407 "Technical Rules for Hazardous Substances" (chapter 3 "Informationsermittlung und Gefährdungsbeurteilung" and chapter 4 "Schutzmaßnahmen 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.		
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<small>H. Safety in technology and chemistry</small>		

TEST REPORT



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GLOBAL SEALING SOLUTIONS

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