



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.



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		BAM Bundesanstalt für Materialforschung und -prüfung
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" "Regelungen mit Gasen - Gefährdungsbeurteilung und Gefährdungsmaßnahmen" Kapitel 3 "Informationsbestimmung und Gefährdungsbeurteilung" und Kapitel 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. This report may not be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of the publisher or the author. The test results are exclusively for the tested material. To see a German version of the test report is available, exclusively the German version is binding.		
H Safety in technology and chemistry		

TEST REPORT



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GLOBAL SEALING SOLUTIONS

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