



PLANIGRAPH V48Z OXYGEN BAM

Composition

Pure flexible graphite

Characteristics

Planigraph V48Z OXYGEN graphite gaskets in rings ensure safe and reliable performance in environments with liquid and gaseous oxygen. Certified according to BAM specifications, they provide effective protection against oxidation. When used in stems, assistance from GR80SGR OXYGEN braided wiper rings (BAM report 2-28/2015E) or Planigraph V48ZN OXYGEN nickel-reinforced graphite rings (BAM report 2-1948/2014E) is recommended.

Applications

Made with highly pure graphite, Planigraph V48Z OXYGEN expanded graphite gaskets in rings offer high quality and reliability for applications involving liquid and gaseous oxygen.

Tech Data

Maximum Temperature C°	Maximum Oxygen Pressure bar
up to 60	420
> 60 to 280	250

- Never use the product at its maximum rated temperature and pressure. Consult the manufacturer for further information.
- The peak temperature can be sustained only for short exposure periods.
- The dimensional tolerances of the molded products refer to the Carrara S.p.A. standard, unless otherwise agreed.



Planigraph V48Z OXYGEN BAM

Planigraph V48Z OXYGEN graphite gaskets in rings are BAM certified for use with both liquid and gaseous oxygen. These expanded graphite rings are designed for services involving liquid and gaseous oxygen (BAM report 2-1949/2014 E), serving for stem or as fire-safe seals for closures and as packing for ball valve seats.

Report		BAM
on Testing a Nonmetallic Material for Reactivity with Oxygen		Bundesanstalt für Materialforschung und -prüfung
Reference Number	2-1949/2014 E	TEST REPORT
Copy	1. Copy of 2 Copies	
Customer	CARRARA S.p.A. Via Provinciale 1/E 25030 Adro (BS) Italia	
Order Date	August 4, 2014	
Reference	Order No: 1411295	
Receipt of Order	August 11, 2014	
Test Samples	Die-formed flexible graphite ring Planigraph ZV48Z OXY, undisclosed batch, for use as a sealing material in piping, valves and fittings or other components for gaseous oxygen service at temperatures up to 280 °C and for liquid oxygen service. BAM Order No.: 2-192-220	
Receipt of Samples	August 7, 2014	
Test Date	August 22, 2014 to February 6, 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 1707:2002-02 "Cryogenic Vessels - Gas/Material Compatibility" ISO 21012:2004-07 "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 Sachverständigenrat, Rohstoffe und Chemische Industrie, Edition: März 2014. TROS 407 Technical Rules for Hazardous Substances "Arbeiten mit Gasen - Gefährdungsbeurteilung" chapter 3 "Informationserhebung und Gefährdungsbeurteilung" and chapter 4 "Stützmaßnahmen bei Tätigkeiten mit Gasen" Edition: June 2013	
<small>All pressures of this report are excess pressures. This test report consists of page 1 to 5 and annex 1 to 4. This test report may not be published or otherwise made available in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without the prior written permission of the publisher. In case of a German version of the test report available, exclusively the German version is binding.</small>		
<small>M Safety in technology and chemistry</small>		



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