



# PLANIGRAPH V48ZN OXYGEN BAM

## Composition

The Planigraph V48ZN OXYGEN BAM graphite gaskets in rings are composed of pure expanded graphite supported by nickel tape, giving them optimal resistance and extended durability in the corrosive environment of liquid and gaseous oxygen.

## Characteristics

These Planigraph V48ZN OXYGEN BAM graphite gaskets in rings, certified according to the BAM standard for use with liquid and gaseous oxygen, stand out for their robustness and reliability. Made from pure expanded graphite supported by nickel tape, they offer exceptional resistance to corrosion and the high temperatures typical of oxygen-rich environments. Their design aims to ensure optimal sealing for stem and ball valve seats, ensuring safe and leak-free operation under critical conditions. Compatible with GR80SGR OXYGEN BAM braided rings and Planigraph V48Z OXYGEN BAM rings, these graphite rings are a reliable choice for industrial applications that require high performance and durability.

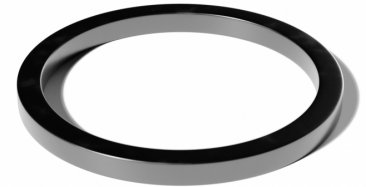
## Applications

The Planigraph V48ZN OXYGEN BAM graphite gaskets in rings are primarily used in systems handling liquid and gaseous oxygen, such as industrial valves and related devices, ensuring reliable and long-lasting sealing.

## Tech Data

Maximum Temperature C°	Maximum Oxygen Pressure bar
up to 60	430
> 60 to 280	250

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



## Planigraph V48ZN OXYGEN BAM

The Planigraph V48ZN OXYGEN BAM graphite gaskets in rings are BAM-certified for use with both liquid and gaseous oxygen, providing a robust seal for stem and ball valve seats. Crafted from pure expanded graphite supported by nickel tape, they ensure reliability and safety in high-pressure and high-temperature systems.

Report		
on Testing a Nonmetallic Material for Reactivity with Oxygen		
Reference Number	2:19492014 E	<b>TEST REPORT</b>
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.: 1411298	
Receipt of Order	August 11, 2014	
Test Samples	Die-formed flexible graphite ring Planigraph ZV48ZN OXY, undisclosed batch, for use as a sealing material in piping, valves and fittings of other components for gaseous oxygen service at temperatures up to 280 °C and for liquid oxygen service. BAM Order No.: 2:1952 219	
Receipt of Samples	August 27, 2014	
Test Date	August 22, 2014 to January 30, 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 "Oxygen: Vessels - Gas/Material Compatibility" ISO 21010:2004-07 "Oxygen: Vessels - Gas/Material Compatibility" Annex of pamphlet M 034-1 (BSI 617-1) "List of nonmetallic materials compatible with oxygen by BAM Federal Institute for Material Research and Testing", by Dr.-Ing. Grottel, Bielefeld, 2004 Edition: March 2014. TRGS 402 "Technical Rules for Hazardous Substances" ("Regelwerke mit Gasen - Gefährdungsbeurteilung" chapter 2 "Informationsermittlung und Gefährdungsbeurteilung" and chapter 4 "Stützdruckverfahren bei Tätigkeiten mit Gasen" Edition: June 2013	
<small>All pressures of this report are excess pressures. This test report consists of page 1 to 8 and annex 1 to 4. This test report may not be distributed to 3rd parties without the approval of the person responsible for issuing the test report. Information from BAM for a more precise reproduction of the content of the published test report: The test results refer exclusively to the test material. In case a German version of the test report is available, exclusively the German version is binding.</small>		
<small>HS Safety in technology and chemistry</small>		



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**CARRARA**  
GLOBAL SEALING SOLUTIONS

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