PLANIGRAPH V48ZN OXYGEN BAM

Composition

The V48ZN OXYGEN BAM graphite 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 V48ZN OXYGEN BAM graphite 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 OXY braided rings and V48Z OXY rings, these graphite rings are a reliable choice for industrial applications that require high performance and durability.

Applications

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

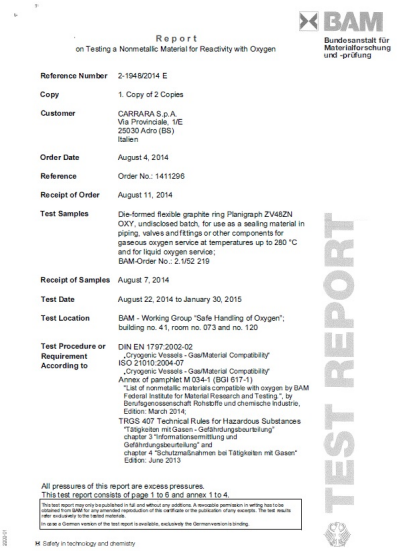
Tech Data

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

- Never use the product to the maximum temperature and pressure associated. Consult the manufacturer for further information
- The dimensional tolerances of the molded products refer to the Carrara Spa standard, unless otherwise agreed.

PLANIGRAPH V48ZN OXYGEN BAM

The V48ZN OXYGEN BAM graphite 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.



BAM
Bundesanstalt für Materialforschung und -prüfung

Report
on Testing a Nonmetallic Material for Reactivity with Oxygen

Reference Number	2-1948/2014 E
Copy	1. Copy of 2 Copies
Customer	CARRARA S.p.A. Via Provinciale, 1/E 25030 Adro (BS) Italien
Order Date	August 4, 2014
Reference	Order No.: 1411296
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 or other components for gaseous oxygen service at temperatures up to 280 °C and for liquid oxygen service; BAM-Order No.: 2.1/52 219
Receipt of Samples	August 7, 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 „Cryogenic Vessels - Gas/Material Compatibility" ISO 21010:2004-07 „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 Berufsgenossenschaft Rohstoffe und chemische Industrie, Edition: March 2014; TRGS 407 Technical Rules for Hazardous Substances "Tätigkeiten mit Gasen - Gefährdungsbeurteilung" chapter 3 "Informationsermittlung und Gefährdungsbeurteilung" and chapter 4 "Schutzmaßnahmen bei Tätigkeiten mit Gasen" Edition: June 2013

All pressures of this report are excess pressures.
This test report consists of page 1 to 6 and annex 1 to 4.

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In case a German version of the test report is available, exclusively the German version is binding.

M Safety in technology and chemistry

TEST REPORT

CARRARA®
GLOBAL SEALING SOLUTIONS

Carrara S.p.A.,
Via Provinciale 1/E - 25030 Adro - BS - Italia
tel. +39 030 7451121 / fax +39 030 7451130
www.carrara.it - info@carrara.it