

TECHNICAL DATA SHEET - CST 2241/02 - 29/09/2016

CONTROLLER 3 EVOLUTION OXY

Maximum Temperature [°C]	Maximum Oxygen Pressure [bar]
up to 60	350
>60 up to 300	220

Valori di temperatura e pressione massimi associati con ossigeno puro

Report	
on Testing a Nonmetallic 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.: 2/152 462
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 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
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 6 and annex 1 to 4.	
<div style="border: 1px solid black; padding: 2px; font-size: 8px;"> This test report may only be published in full and without any additions. It is available for reproduction in writing has to be obtained from BAM for any amended reproduction of this certificate or the publication of any excerpts. The test results refer exclusively to the tested materials. In case a German version of the test report is available, exclusively the German version is binding. </div>	
<small>H Safety in technology and chemistry</small>	



TEST REPORT

Composizione

Pura grafite minerale espansa con speciale rinforzo in Inconel®.

Caratteristiche

Controller 3 Evolution OXY è costituito da anelli di treccia stampata **ZGR80SGR OXY** costituita da trefoli di grafite espansa caratterizzati da uno speciale rinforzo. Il materiale garantisce una bassissima perdita di peso in esercizio ad alta temperatura, incontrando i requisiti **EN14772 - sezione 6.7**, offrendo inoltre un basso coefficiente di attrito. Approvato BAM No. 2-28/2015 E per uso con ossigeno liquido e gassoso.

Applicazioni

Controller 3 Evolution è una guarnizione stelo specifica per Valvole Industriali a servizio Ossigeno.