PTFE PACKING PT5500 OXYGEN BAM

Composition

100% PTFE Multifilament yarns for oxygen use

Characteristics

The PT5500 OX packing is a reliable solution for applications that require the use of PTFE. Made with pure PTFE multifilament yarns, this packing has obtained BAM approval for use with Gaseous Oxygen under specific conditions of Tmax=60°C and Pmax=30 Bar. This packing can also be used for normal services where the use of PTFE is required, up to a maximum temperature of T=260°C. In addition, the PT5500 OX is suitable for use in cryogenic applications, with a maximum pressure of P=500 Bar, although it is important to remember that minimum/maximum temperatures and maximum pressures should not be associated. With these features, the PT5500 OX packing is a versatile and reliable option for applications that require a high level of sealing and resistance to high temperatures and pressures.

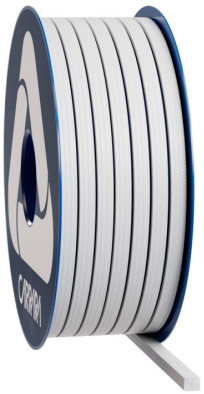
Applications

The PT5500 OX packing has been specifically designed for oxygen service applications and has obtained BAM approval for use with oxygen. In summary, the PT5500 OX packing is a highly specialized product that guarantees high performance and reliability in the field of oxygen service, but which also lends itself to a wide range of static applications where fluid sealing is required in the presence of high temperatures and pressures.

Tech Data

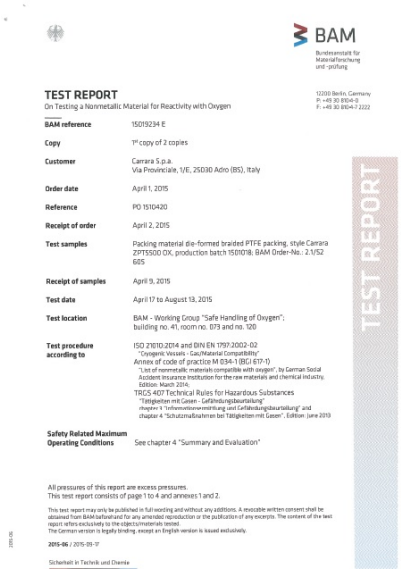
	P bar	lbf/in2	Vm/S	f/pm	pH	T°C	T°F
	30	450	1	200	0 ÷ 14	÷ 60	÷ 140

- Never use the product at its maximum rated temperature and pressure simultaneously. Consult the manufacturer for further information.
- The peak temperature can be sustained only for short exposure periods.



PTFE Packing PT5500 OXYGEN BAM

The Carrara product range of PTFE packings includes various configurations for all industrial applications. White PTFE yarn is commonly used in gland sealing systems, both in static and dynamic applications with moderate-speed, thanks to the properties of this material, which ensures efficient and reliable sealing that can cover almost the entire pH range. Visit our ***Compression Packing Stock*** page. Carrara offers a wide range of sizes and materials available for immediate shipment.



BAM

TEST REPORT

On Testing a Nonmetallic Material for Reactivity with Oxygen

BAM reference	15019234 E
Copy	1st copy of 2 copies
Customer	Carrara S.p.a. Via Provinciale, 1/E, 25030 Adro (BS), Italy
Order date	April 1, 2015
Reference	PO 1510420
Receipt of order	April 2, 2015
Test samples	Packing material die-formed braided PTFE packing, style Carrara ZPT5500 OX, production batch 1501101B; BAM Order-No.: 2.1/52 605
Receipt of samples	April 9, 2015
Test date	April 17 to August 13, 2015
Test location	BAM - Working Group "Safe Handling of Oxygen"; building no. 41, room no. 073 and no. 120
Test procedure according to	ISO 21010:2014 and DIN EN 1797:2002-02 "Cryogenic Vessels - Gas/Material Compatibility" Annex of code of practice M 034-1 (BG 617-1) "List of nonmetallic materials compatible with oxygen", by German Social Accident Insurance Institution for the raw materials and chemical industry, Edition: March 2014; TRGS 407 Technical Rules for Hazardous Substances "Tätigkeiten mit Gasen - Gefährdungsbeurteilung" chapters 3 "Informationsermittlung und Gefährdungsbeurteilung" and chapter 4 "Schutzmaßnahmen bei Tätigkeiten mit Gasen", Edition: June 2010
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 4 and annexes 1 and 2.

TEST REPORT

This test report may only be published in full wording and without any additions. A revocable written consent shall be obtained from BAM beforehand for any amended reproduction or the publication of any excerpts. The content of the test report refers exclusively to the object/materials tested.
The German version is legally binding, except an English version is issued exclusively.

2015-06 / 2015-05-11

Sicherheit in Technik und Chemie

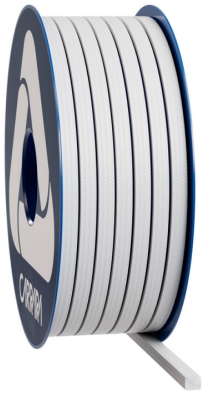
CARRARA
GLOBAL SEALING SOLUTIONS

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

The information provided in this publication, as well as that supplied to users in other forms, is based on our experience and communicated according to the best knowledge available. However, since numerous factors beyond our knowledge and control may influence the use of the products, no warranty, explicit or implicit, is given regarding such content. The operating limits indicated do not constitute confirmation that these values can be applied simultaneously. Avoid using the product at the maximum temperature and pressure limits. The maximum temperature is sustainable only for short periods under specific conditions. Specifications may be changed without notice. The images in the DS may not exactly represent the product, its color and/or marking.

PTFE PACKING PT5500 OXYGEN BAM

Sezione mm	Sezione inch	kg/box	lbs/box	mt/box	ft/box	mt/kg	ft/lbs
3	1/8"	1	2.2	58.8	192.9	58.8	87.6
4	-	1	2.2	37.0	121.4	37.0	55.1
5	3/16"	1	2.2	20.0	65.6	20.0	29.8
6	-	2.5	5.5	41.7	136.8	16.7	24.8
6.5	1/4"	2.5	5.5	35.7	117.1	14.3	21.3
8	5/16"	2.5	5.5	25.0	82.0	10.0	14.9
9.5	3/8"	2.5	5.5	18.5	60.7	7.4	11.0
10	-	2.5	5.5	16.7	54.8	6.7	10.0
11	7/16"	2.5	5.5	13.9	45.6	5.6	8.3
12	-	2.5	5.5	11.4	37.4	4.5	6.8
12.7	1/2"	2.5	5.5	10.4	34.1	4.2	6.2
14	9/16"	5	11	17.2	56.4	3.4	5.1
16	5/8"	5	11	13.0	42.7	2.6	3.9
17.5	-	5	11	11.6	38.1	2.3	3.5
18	11/16"	5	11	10.2	33.5	2.0	3.0
19	3/4"	5	11	9.3	30.5	1.9	2.8
22	7/8"	5	11	6.9	22.6	1.4	2.1
25.5	1"	5	11	5.4	17.7	1.1	1.6



- The weight per meter and the packaging weight may have a tolerance of ±10%. Other sizes and packaging options are available on request.

The information provided in this publication, as well as that supplied to users in other forms, is based on our experience and communicated according to the best knowledge available. However, since numerous factors beyond our knowledge and control may influence the use of the products, no warranty, explicit or implicit, is given regarding such content. The operating limits indicated do not constitute confirmation that these values can be applied simultaneously. Avoid using the product at the maximum temperature and pressure limits. The maximum temperature is sustainable only for short periods under specific conditions. Specifications may be changed without notice. The images in the DS may not exactly represent the product, its color and/or marking.

GLOBAL SEALING SOLUTIONS

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