



# 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  $T_{max}=60^{\circ}\text{C}$  and  $P_{max}=30$  Bar. This packing can also be used for normal services where the use of PTFE is required, up to a maximum temperature of  $T=260^{\circ}\text{C}$ . 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. 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.




**TEST REPORT**  
On Testing a Nonmetallic Material for Reactivity with Oxygen

**BAM reference** 15019234 E

**Copy** 1<sup>st</sup> 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 15019234, BAM Order-No.: 2. V52 655

**Receipt of samples** April 9, 2015

**Test date** April 11 to August 13, 2015

**Test location** BAM - Working Group "Safe Handling of Oxygen", building No. 41, room No. 073 and no. 100

**Test procedure according to** ISO 21010:2014 and DIN EN 1799:2002-02  
"Oxygen Vessels - Gas/Material Compatibility"  
Annex of Code of Practice M 034-1 (BSI 6121)  
"List of nonmetallic materials compatible with oxygen", by German Social Accident Insurance Institution for the non-metallic and chemical industry, Edition: March 2014  
TRGS 402 Technical Rules for Hazardous Substances  
"Tätigkeiten mit Gasen - Luftdichtungsarbeiten"  
"Kapitel 1 "Inbetriebnahmeprüfung und Leckdichtungsarbeiten"  
"Kapitel 4 "Schutzmaßnahmen bei Tätigkeiten mit Gasen", Edition: June 2010

**Safety Realized 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.  
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Sicherheits- in Technik und Chemie

TEST REPORT



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# 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  $\pm 10\%$ . Other sizes and packaging options are available on request.



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