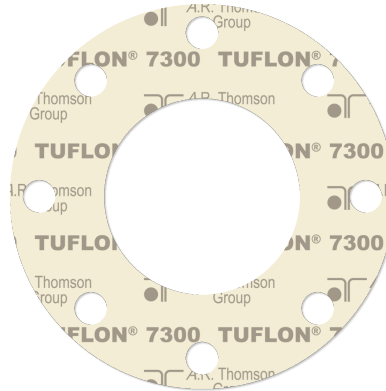


Thomson TUFLON® 7300

Barium Sulfate filled PTFE



TUFLON® 7300 is a barium sulfate filled PTFE gasket material, specifically formulated for service in strong caustics, moderate acids, chlorine, hydrocarbons and cryogenics. TUFLON® 7300 is highly resistant to creep relaxation and has outstanding sealability characteristics. The product can be supplied with FDA compliance.

Specifications*

Temperature, cont. max:

-364°F (-220°C) to
+500°F (+260°C)

Pressure, max:

1,200 psig (83 bar)

P x T, max:**

1/32" (0.8mm) 1/16" (1.6mm) 350,000 (12,000)
1/8" (3.2mm) 250,000 (8,600)

* Specifications: Based on ANSI RF flanges at our preferred torque. When approaching maximum pressure or continuous operating temperature, or 50% of maximum PxT, consult Applications Engineering.

** P x T = psig x °F (bar x °C)

Color: Off-white

Benefits

- Excellent cost/use ratio
- Superior chemical resistance
- Excellent sealability properties
- Easy to remove from flange faces
- Unlimited shelf life
- Easy to cut and handle, flexible, durable
- Patented welding process for unlimited gasket size

Ideal for

- Pulp and Paper
- Food processing
- Pharmaceutical
- Chemical Process
- Brewing, distilling
- General industrial use

"M & Y" Factors

	Thickness		"m"	"y"		
	in	mm	(no units)	psi	N/mm ²	kgf/mm ²
7300	1/16	1.6	4.3	1,650	11.4	1.16
	1/8	3.2	2.0	1,650	11.4	1.16

Physical Properties*

Test Method	Typical Physical Properties	
ASTM F36	Compressibility, %	15–25
ASTM F36	Recovery, %	40
ASTM F38	Creep Relaxation, %	35
ASTM F152	Tensile, Across Grain, psi (N/mm²):	2,000 (13.8)
ASTM D792	Specific Gravity:	2.30
ASTM D1708	Modulus @ 100% Elongation, psi (N/mm²):	1,400 (9.6)
ASTM D149	Dielectric Properties, range, volts/mil.	
	Sample conditioning	1/16" 1/8"
	None:	445 -
	96 hours at 100% Relative Humidity:	- -
ASTM F586	Design Factors	1/16" 1/8"
	“m” factor:	4.3 2.0
	“y” factor, psi (N/mm ²):	1,650 (11.4) 1,650 (11.4)
ROTT	Gaskets Constants, 1/16”:	Gb=35 a=0.582 Gs=1.90x10 ⁻⁴
ASTM F104	Line Call Out:	F454111A9B9E11M6 ⁽¹⁾

Sealing Characteristics*

	ASTM F37B FUEL A	ASTM F37B NITROGEN
Gasket Load, psi (N/mm²):	1,000 (7)	3,000 (20)
Internal Pressure, psig (bar):	9.8 (0.7)	30 (2)
Leakage:	0.2 ml/hr	0.1 cc/min

NOTES:

This is a general guide and should not be the sole means of selecting or rejecting this material. ASTM test results in accordance with ASTM F-104; properties based on 1/32" (0.8 mm) sheet thickness unless otherwise mentioned.

Based on ANSI RF flanges at our preferred torque – when approaching maximum pressure, continuous operating temperature, minimum temperature or 50% of maximum PxT, consult A.R. Thomson Group.

* Values do not constitute specification Limits

¹ A9: Leakage in Fuel A (Isooctane), Gasket Load=1,000 psi (7.0 N/mm²), Pressure=9.8 psig (0.7 bar): Typical=0.20 ml/hr. A9: Leakage in Nitrogen, Gasket Load=3,000 psi (20 N/mm²), Pressure=30 psig (2 bar): Typical=0.1 ml/hr. B9: Creep Relaxation=35%.

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