

Thomson

# OPTI-LOAD<sup>®</sup> T-SHIELD



## TYPICAL APPLICATIONS

- Non-metallic flanges and flanges that have limited seating stress available.
- Excellent media compatibility 0-14 pH.

Peroxide-Cured EPDM rubber gasket with PTFE envelope to shield the gasket from contact with the process media.

## FEATURES / BENEFITS

- Raised sealing rings reduce the seating area of the gasket, lowering the required load to achieve a seal.
- Sealing rings also help maintain the seal during thermal and pressure cycling.
- PTFE envelope is inert to virtually all chemical except for fluorine gases and molten alkali metals.
- Base gasket is Peroxide-Cured EPDM which has superior chemical and heat resistance vs. standard Sulfur-Cured EPDM for extra seal integrity.
- Identification tab on the outside diameter of the gasket allows operator to verify material and size while in service.

## SPECIFICATIONS

**Construction:**  
Peroxide-Cured EPDM  
Rubber / Blue PTFE

**Colour:**  
Black/Blue

**Temperatures:**  
Minimum: -40°F (-40°C)  
Intermittent: +300°F (+149°C)

**Max Pressure:**  
150 psi (10 bar)

\* See reverse for recommended bolt torque values.

## TECHNICAL DATA - OPTI-LOAD® T-SHIELD

Bolt Torque Values for Thomson OPTI-LOAD® Gaskets on ASME B16.5 Flat Face Flanges					
NPS (IN)	NO. OF BOLTS	SIZE OF BOLTS (IN)	MIN. SUGGESTED TORQUE (FT. LBS.)	PREFERRED TORQUE RANGE (FT. LBS.)	
				MIN	MAX
0.5	4	0.50	5	9	19
0.75	4	0.50	6	12	23
1	4	0.50	7	14	28
1.25	4	0.50	8	16	32
1.5	4	0.50	10	19	37
2	4	0.63	17	33	66
2.5	4	0.63	23	45	90
3	4	0.63	25	49	97
3.5	8	0.63	15	30	60
4	8	0.63	17	33	66
5	8	0.75	21	41	82
6	8	0.75	23	46	92
8	8	0.75	33	66	132
10	12	0.88	32	64	128
12	12	0.88	47	93	186
14	12	1.00	67	134	268
16	16	1.00	60	120	241
18	16	1.13	66	132	264
20	20	1.13	62	124	249
24	20	1.25	87	173	347

### NOTES

This is a general guide and should not be the sole means of selecting or rejecting this material. Consult A.R. Thomson Group Inc. when approaching maximum pressure or temperature.

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