

Thomson

ECLIPSE® 7576



**THOMSON PERFORMANCE SEALING
THE NEXT GENERATION OF PTFE GASKETS**

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Thomson ECLIPSE® 7576

NEXT GENERATION 'All-in-One'
PTFE Chemical Service Sheet with
a unique combination of features.



FEATURES



Low Load to Seal

Requires lower bolt loads and can be used on non-metallic flanges.



Exceptional Rigidity

Easy to install versus other low load materials.



Universal Chemical Compatibility

Replaces all three traditional filled PTFE materials.



Reduced Creep & Cold Flow

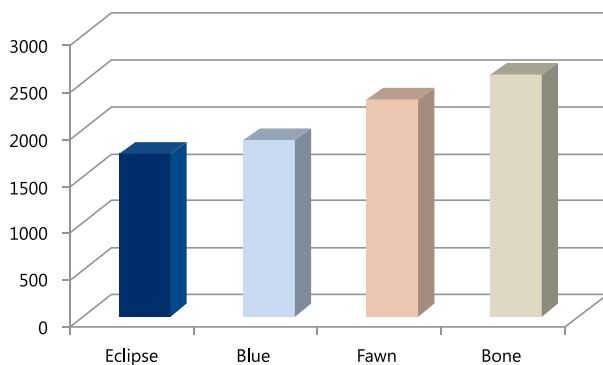
Tighter load retention than existing PTFE materials.

ECLIPSE: A GENUINE ALL-IN-ONE SOLUTION

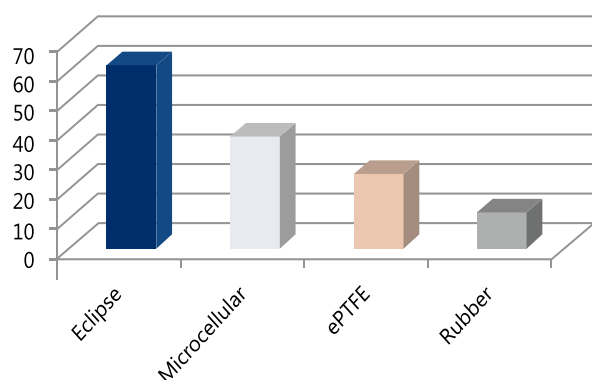
Exceptional low load to seal properties and improved rigidity for easier installation:

Eclipse is a filled PTFE sheet that is restructured using a proprietary process resulting in exceptional compressibility, low load to seal and outstanding rigidity. In addition, Eclipse features a proprietary filler that is chemically inert and provides unsurpassed creep and cold flow resistance.

**Stress to Seal
(PSI 1/16" Thick)**



Rigidity % (vs. Other Low Load to Seal)



Universal chemical compatibility eliminates uncertainty and misapplication:

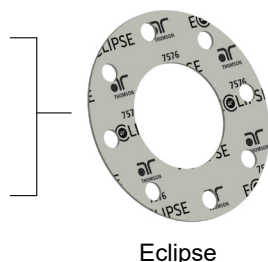
Eclipse uses a unique, chemically inert filler that allows it to be used in place of any of the standard filled-PTFE materials currently found on the market. This eliminates uncertainty and prevents misapplication in chemical service. As shown in the chart below, Eclipse is the first truly universal filled PTFE material:

	Strong Acid	Strong Base	Green Liquor	Sulfuric Acid	Sodium Hydroxide	Oleum	Hydrofluoric Acid
Eclipse	Y	Y	Y	Y	Y	Y	Y
Bone	N	Y	Y	N	Y	N	C
Blue	C	C	C	C	C	N	N
Fawn	Y	N	N	Y	N	Y	N

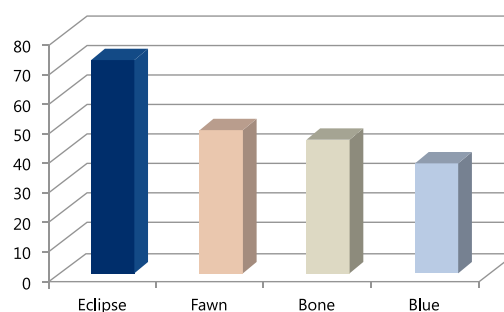
Y Compatible
 C Caution: Conditional Use Only
 N Not Compatible

COLOUR	FILLER
Bone	Barium Sulfate
Blue	Glass Spheres
Fawn	Silica

The All-In-One Solution:



Load Retention %



TECHNICAL DATA - THOMSON ECLIPSE® 7576

PHYSICAL PROPERTIES			
TEST METHOD	TYPICAL PHYSICAL PROPERTIES		
ASTM F36 -15 Procedure M	Compressibility: %	68.1	
ASTM F36 -15 Procedure M	Recovery: %	7.4	
ASTM F38 -18 Test Method B	Creep relaxation: %	21.8 (Based on 1.1mm thickness.)	
ASTM F152	Tensile strength: psi	1100	
ASTM F586	Design factors:		
	“m” factor	3.0	4.3
	“y” factor: psi	1600	1900
		1/16”	1/8”
			1/4”
		2.0	
		1800	
SEALING CHARACTERISTICS			
	ASTM F37-06 METHOD B NITROGEN		
Sealability: ml/h	0.014 ml/h		

Limitation of liability: actual performance may vary and is determined by factors unique to a given application. It is recommended that care be taken in the selection and application of materials for hazardous services and controlled testing be undertaken to determine suitability for a specific application. A.R. Thomson Group Inc. does not make or imply any warranty of suitability for a particular purpose and is not liable for any damages arising from the use of the information in this sheet.

OTHER PRODUCTS

METALLIC GASKETS



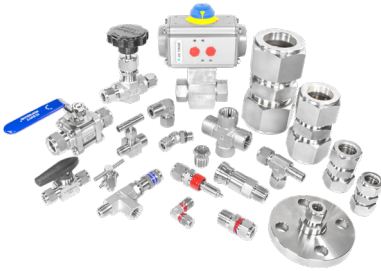
Thomson CANFLEX® spiral wound, camprofile, high temperature, heat exchanger and ring joint gaskets. We manufacture gaskets from all common metals, exotic alloys and filler materials in all configurations for the most extreme applications.



FASTENERS

All thread studs – ASTM 193 Grade B7, B7M, B8, B8M, B16, ASTM A320 L7, L7M; heavy hex nuts – ASTM A194 Grade 2H, 2HM, 4, L7, L7M, 8 and 8M; Through hardened washers – ASTM F-436; custom coatings; specialty fabricated and machined studs; CANFLEX® approved thread lubricant.

SUPERLOK CANADA



Instrumentation Tube, Pipe, JIC and DIN Fittings. Instrumentation Ball, Bleed, Check, Double Block and Bleed, Needle, Plug, and Purge Relief Valves. Quick Connects and Filters. Flexible Metal Hose, Tubing and Accessories.



MECHANICAL SEALS

Advanced cartridge and component seals for pumps, mixers, compressors and other rotating equipment. Seal replacements for major brands such as John Crane, Flowserve, AES and more.



The A.R. Thomson Group Inc. was established in 1967 as a regional manufacturer & distributor of gaskets and other fluid containment products. With the rapid growth of oil and gas production, petrochemical, oil refining and pulp and paper industries, our manufacturing facilities expanded to meet increased demand for these products. Since 1967, we have developed our expertise and know-how to become the leader in solving fluid containment problems. No matter what your containment needs are, we can help.



Fluid Containment Specialists Since 1967