

## Technical Data Sheet

### MATERIAL PROPERTIES\*:

<b>IFG 5500</b>
Colour: Grey
Composition: Inorganic fibres with a nitrile binder
Fluid Services: Saturated steam <sup>2</sup> , most refrigerants, water, oils, gasoline & aliphatic hydrocarbons
Temperature <sup>1</sup> , °F (°C)
Minimum: -100 (-73)
Continuous Maximum: +550 (+288)
Maximum: +800 (+427)
Pressure <sup>1</sup> , Maximum, psig (bar): 1200 (83)
P x T (max.) <sup>1</sup> , psig x °F (bar x °C):
1/32 and 1/16": 400,000 (14,000)
1/8": 275,000 (9,600)
Meets Specifications: ABS (American Bureau of Shipping) and Fire Safe



### TYPICAL PHYSICAL PROPERTIES\*:

ASTM F36	Compressibility, average, %:	10
ASTM F36	Recovery, %:	50
ASTM F38	Creep Relaxation, %:	15
ASTM D1708	Tensile, Across Grain, psi (N/mm <sup>2</sup> ):	1500 (10)
ASTM F1315	Density lbs/ft <sup>3</sup> (grams/cm <sup>3</sup> ):	100 (1.6)
ASTM F433	Thermal Conductivity (K), W/mK (Btu in/ hr ft <sup>2</sup> °F):	0.43-0.53 (3.00-3.65)

### SEALING CHARACTERISTICS\*

	ASTM F37B – Fuel A	ASTM F37B – Nitrogen	DIN 3535 – Nitrogen
<b>Gasket Load, psi (N/mm<sup>2</sup>):</b>	500 (3.5)	3000 (20.7)	4640 (32)
<b>Internal Pressure, psig (bar):</b>	9.8 (0.7)	30 (2)	580 (40)
<b>Leakage</b>	0.30 ml/hr.	1.0 ml/hr	0.05 cc/Min

Notes: \* This is a general guide and should not be the sole means of selecting or rejecting this material. This data sheet covers basic information, for more comprehensive information, please contact us. ASTM test results in accordance with ASTM F-104; properties 1 Based on ANSI RF flanges at our preferred torque. When approaching maximum pressure, continuous operating temperature, minimum temperature or 50% of maximum P x T, consult us. Minimum temperature rating is conservative. 2 Minimum recommended assembly stress = 4,800psi. Preferred assembly stress = 6,000-10,000psi. Gasket thickness of 1/16" strongly preferred. Re torque the bolts/studs prior to pressurizing the assembly. For saturated steam above 150psig or superheated steam, consult us.

**Asbestos Free**



Certificate Number: 14352  
ISO 9001



Care should be taken in selecting the most suitable quality for each application. Advice is available, but final responsibility remains with the customer.

**Web: [www.epdm.co.uk](http://www.epdm.co.uk)**

**E-Mail: [Sales@epdm.co.uk](mailto:Sales@epdm.co.uk)**

#### Contact

Telephone: +44 (0)1625 573971  
FAX: +44(0)1625 573250  
PTM Ltd  
Units AG2/3 Clarence Mill  
Clarence Road, Bollington  
Macclesfield, Cheshire  
SK10 5JZ  
United Kingdom