

Champion Gasket

Style AF RSF

UNIVERSAL HEAVY-DUTY GASKET TO OVERCOME THE CREEP RELAXATION AND COLD FLOW PROBLEMS



Restructured silica filled PTFE sheets

Champion Jointing Style AF RSF is a high performance, silica filled PTFE sheet material manufactured from high quality PTFE resin and special restructured silica through unique process, eliminating the problems of creep relaxation and cold flow associated with normal (skived or moulded PTFE Sheets). This grade is produced in brown/fawn colour.

Applications: Champion Jointing AF RSF continuously providing best performance in applications with high mechanical requirements at high temperatures and pressures hence is used as gasket for universal applications. This gasket material features excellent acidic and alkaline resistance and versatility in steam applications. It is primarily used in the chemical, the petrochemical and the maritime industry.

Typical Physical Properties:

Description	Standard Specs	Typical Values
Density	DIN 28090-2	1.85 - 2.0 g/cm ³
Tensile Strength	ASTM F 152	≥ 14 MPa / 140 Bar (2030 psi)
Compressibility	ASTM F 36	8% to 18%
Residual Stress	BS 7531	≥ 14 MPa / 140 Bar (2030 psi)
Gas Permeability	BS 7531	< 0.1 cc/min
Recovery	ASTM F 36	≥ 40%
Water Absorption	BS 7531	≤ 18%
Ignition Loss	DIN 52911	≤ 35%
Thermal Conductivity		0.40 W/mK

Gasket Constants acc. ASTM F586:

Thickness (mm)	m (MPa)	y [Mpa]	y [psi]
1.5	5.0	19.0	2750
3	5	24.1	3500

m: Maintenance factor; y: Seating stress

Service Media: Suitable for use with strong acids, solvents, steam, hydrocarbons, chlorine, refrigerants, highly corrosive medium, caustic.

How Supplied: Sheets, pre-cut gaskets, special density, thickness, shape or grade available on request.

Sheet ordering information	
Available Sheet Sizes in mm (+/- 5%)	1500 mm x 1500 mm
Thickness (mm)	1.5 mm; 2.0 mm; 3.0 mm



TEMPERATURE

Minimum Service Temperature:

-268°C / -450°F

Maximum Service Temperature:

260°C / 500°F

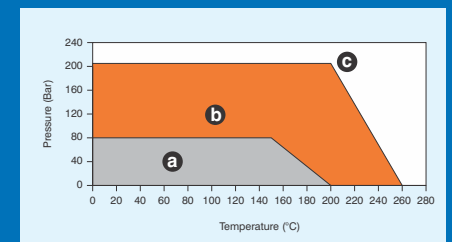


PRESSURE

Maximum Pressure:

8.3 MPa / 83 Bar (1200 psi)

CHAMPION AF RGS PRESSURE / TEMPERATURE LIMITS



Guidelines for application:

- Suitable subject to chemical compatibility.
- Suitable for short term temperature fluctuation or non critical application.
- For extreme service conditions, kindly consult Champion.



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