

Champion Gasket

Style AF RBS

UNIVERSAL HEAVY-DUTY GASKET DESIGNED FOR USE IN AGGRESSIVE CHEMICALS



Restructured Barium Sulfate filled PTFE sheets

Champion Jointing Style AF RBS is a high performance, barium sulfate filled PTFE sheet material manufactured from high quality PTFE resin and special restructured barium sulphate 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 granite white/off white colour.

Applications: Champion Jointing AF RBS continuously providing best performance designed for use in aggressive chemicals including sodium and potassium hydroxide, hydrogen and aluminum fluoride, chrome plating solution and vinyl compounds. It is primarily used in the petrochemical, chemical industry.

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

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



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TEMPERATURE

Minimum Service Temperature:

-268°C / -450°F

Maximum Service Temperature:

260°C / 500°F

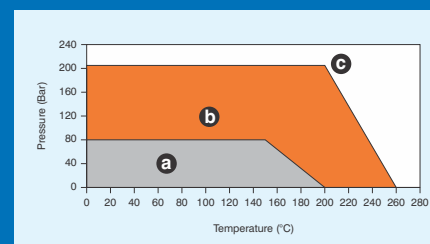


PRESSURE

Maximum Pressure:

8.3 MPa / 83 Bar (1200 psi)

CHAMPION AF RBS 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.

*Kindly consult Champion Technical Support for all critical applications.