

# Champion Gasket

## Style AF RGS

UNIVERSAL HIGH PERFORMANCE GASKET TO ENHANCE COMPRESSIBILITY FOR LOW BOLT LOADS



## Glass Micro-Spheres Filled PTFE sheets

**Champion Jointing Style AF RGS** is a high performance biaxially orientated sheet sealing material containing PTFE and hollow glass microspheres. Manufactured from high quality PTFE resin 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 Blue colour.

**Applications: Champion Jointing AF RGS** 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.

**Service Media:** Suitable for use in alkali, acid and chlorine service, can be used for all concentrations of sulphuric acid, hot and cold potable water services. pH range is 0-14.

**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	1.75 - 0.95 g/cm <sup>3</sup>
Tensile Strength	ASTM F 152	≥ 14 MPa / 140 Bar (2030 psi)
Compressibility	ASTM F 36	25% to 45%
Residual Stress	BS 7531	≥ 14 MPa / 150 Bar (2175 psi)
Gas Permeability	BS 7531	< 0.1 cc/min
Recovery	ASTM F 36	≥ 35%
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	2.0	19.0	2750
3	2.0	19.3	2800

m: Maintenance factor; y: Seating stress



## SEALANT & GASKET INDIA PRIVATE LIMITED

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### TEMPERATURE

**Minimum Service Temperature:**

-268°C / -450°F

**Maximum Service Temperature:**

260°C / 500°F



### PRESSURE

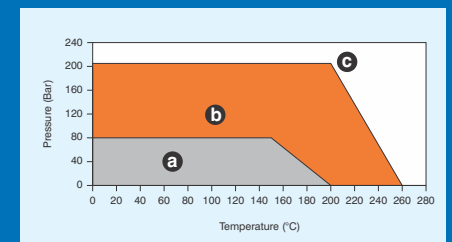
**Minimum Pressure:**

Full Vacuum

**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.

\*Kindly consult Champion Technical Support for all critical applications.