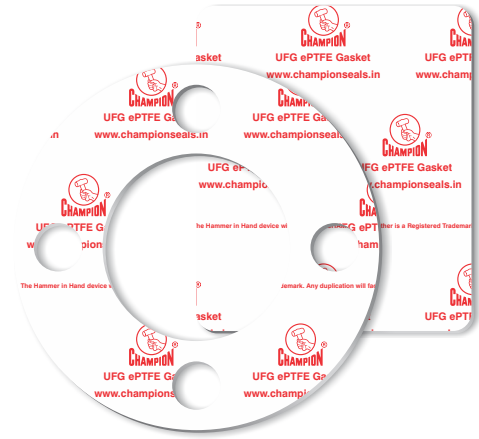


# Champion Gasket

## Ultimate Flange Gasket (UFG) ePTFE

RELIABLE SEALABILITY DUE TO LOW STRESS AND EXCEPTIONAL DIMENSIONAL STABILITY

100% pure virgin multi-directionally expanded PTFE sheet



**Champion Ultimate Flange Gasket (UFG) ePTFE** is a high performance biaxially orientated sheet sealing material containing 100% pure virgin PTFE manufactured from high quality PTFE resin through unique process, giving exceptional mechanical strength eliminating the problems of creep relaxation at elevated temperatures associated with normal (skived or moulded PTFE Sheets). This grade is produced in White colour.

**Applications: Champion Ultimate Flange Gasket (UFG) ePTFE** is capable of a wide service range in applications found throughout the process industries. It is an ideal choice for both high load metal flanged applications and low load applications in glass lined steel, glass and plastic lined piping and vessels. It is primarily used in the chemical, pharmaceutical and food industry.

### Typical Physical Properties:

Description	Standard Specs	Typical Values
Density	DIN 28090-2	0.8 - 0.95 g/cm <sup>3</sup>
Tensile Strength	ASTM F 152	≥20 MPa / 200 Bar (2900 psi)
Compressibility	ASTM F 36	>45%
Residual Stress	BS 7531	≥15 MPa / 150 Bar (2175 psi)
Gas Permeability	BS 7531	<0.1 cc/min
Recovery	ASTM F 36	≥25%
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

**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			
Thickness		Width x Length	
Champion Style		1500 mm x 1500 mm 59" x 59"	1500 mm x 4500 mm 59" x 177"
0.5 mm	0.20"	CUF-G05-S	CUF-G05-S3
0.8 mm	1/32"	CUF-G08-S	CUF-G08-S3
1.00 mm	0.39"	CUF-G10-S	CUF-G10-S3
1.50 mm	0.59"	CUF-G15-S	CUF-G15-S3
2.00 mm	0.079"	CUF-G20-S	CUF-G20-S3
3.00 mm	0.118"	CUF-G30-S	CUF-G30-S3
4.00 mm	0.157"	CUF-G40-S	CUF-G40-S3
5.00 mm	0.197"	CUF-G50-S	CUF-G50-S3



### TEMPERATURE

**Minimum Service Temperature:**

-268°C / -450°F

**Maximum Service Temperature:**

260°C / 500°F

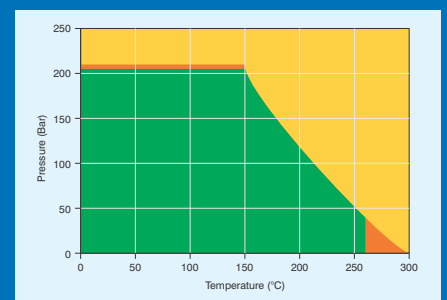


### PRESSURE

**Maximum Pressure:**

20.5 MPa / 205 Bar (3000 psi)

### CHAMPION AF RSC PRESSURE / TEMPERATURE LIMITS



### Guidelines for application:

- General Suitability
- Consultation is recommended
- Technical consultation is mandatory

Always refer chemical resistance of gasket to the media

### APPROVALS / COMPLIANCE

US FDA 21 CFR 177.1550,  
REACH, RoHS 2.0,  
EU 1935, PFAS, PFOA, ASTM

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



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