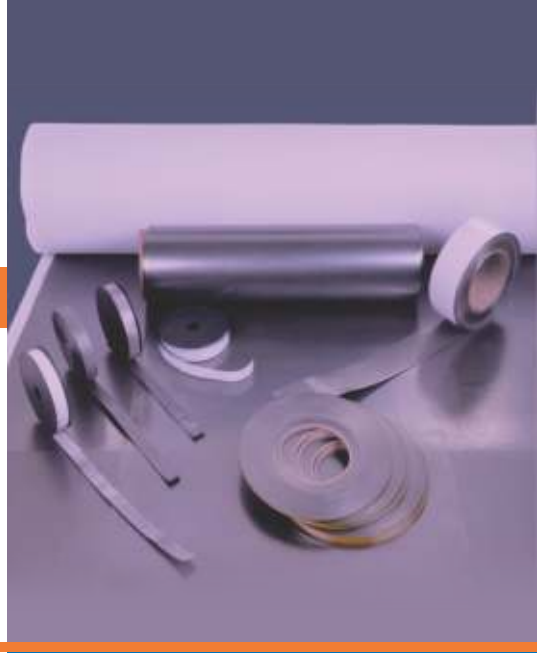
Champion Gasket

Style GS 64NG

NUCLEAR GRADE FLEXIBLE GRAPHITE FOIL



Flexible graphite foil with >99.5% carbon content for ultra high purity applications

CHAMPION STYLE GS 64NG (Non-Metallic) Pure Expanded graphite sheets are selected from the high purity natural flake graphite. They are compressed by a controlled calendaring process along with the advanced chemical treatment and mechanical procedure without fibers, binders or other additives. Sheets of graphite foil are then adhesive bonded and laminated to the required thickness.

Applications: CHAMPION STYLE GS 64NG Commonly used for sealing applications in radioactive environment, nuclear plant or other applications that require high purity. Widely used in packing ring, corrugated tape, filler in metallic gaskets, heat liner in industrial furnaces.

Service Media: Steam, mineral oils, heat transfer oils, hydraulic oil, fuel, water, seawater, freshwater etc. (not suitable for use with very strong oxidizing compounds like highly concentrated nitric acid or chromic acid).

How Supplied:

Rolls, Foils, Sheets, Pre-Cut Gaskets, Special density, thickness, shape or grade available on request.

Sheet ordering information	
Length (M)	5-15
Width (mm)	03 mm - 1500 mm
Thickness (mm)	0.1-1.5

Typical Physical Properties:

Description	Standard Specs	Typical Values
Density	DIN 28090-2	0.7-1.6 (±0.05) g/cm^3
Tensile Strength	ASTM F 152	≥3.5 MPa/35 Bar (507 psi)
Compressibility	ASTM F 36	≥40%
Stress Relaxation	BS 7531	10%
Gas Permeability	BS 7531	<0.5 cc/min
Recovery	ASTM F 36	≥10%
Water Absorption	BS 7531	≤5%
Ignition Loss	DIN 52911	20%
Carbon Content	–	≥99.5%
Ash Content	–	≤0.3%
Sulphur Content	–	≤200 ppm
Chlorine Content	–	≤30 ppm
Creep	–	≤5%

TEMPERATURE

Maximum Short-Term Service Temperature:
500°C / 900°F (Oxidising)

Maximum Continuous Service Temperature:
2500°C / 4500°F (Non Oxidising)

PRESSURE

Maximum Pressure:
20 MPa / 200 Bar (2900 psi)

*Kindly consult Champion Technical Support for all critical applications.

CHAMPION®
Thriving under Pressure
1959