

Graphite Sheet — Size Chart / Common Sizes / Specifications

1) Flexible / [Expanded Graphite Sheet](#) (aka “flexible graphite foil” / GRAFOIL / SIGRAFLEX)

Common sizes & typical application scenarios

Item	Typical stock / range	Typical application scenarios
Thickness	0.08 - 1.65 mm (0.003" - 0.065") common for flexible foil rolls; sheets often 0.35 - 3.0 mm for gasket stock.	0.08 - 0.5 mm: thin jacket gaskets, heat-exchanger corrugated gaskets, spiral-wound inner filler. 0.5 - 1.5 mm: flange gaskets in chemical/steam service. 1.5 - 3.0 mm: thicker flange gaskets, custom rings for higher seating.
Sheet / roll widths	Rolls & sheets in widths: 24" (610 mm), 39.4" (1000 mm), 60" (1524 mm) often available; sheet panels 1000×1000 mm, 1500×1500 mm common.	Heat exchangers, large flange farms — manufacturers supply full sheets for die/CNC cutting.
Surface treatments	Plain, impregnated (oil/graphite/binder), coated (inhibitors)	Impregnated sheets used where gas leakage must be reduced or handling improved.
Typical industries	Oil & gas, petrochemical, chemical processing, power plant steam, heat exchangers, refining, nuclear (high-purity grades).	

2) Impregnated / [Laminated Graphite Sheet](#) (impregnated flexible graphite — enhanced sealing)

Common sizes & typical application scenarios

Item	Typical stock	Application scenarios
Thickness	0.3, 0.5, 1.0, 1.5, 2.0 mm commonly stocked	Steam flange gaskets, heat exchanger head gaskets, valve bonnets, vacuum seals.
Sheet formats	1000×1000 mm, 1500×1500 mm sheets; rolls also available	Cut-to-shape gaskets for piping and vessels.

3) [Reinforced Graphite Sheets](#) (metal insert / wire mesh / tanged or foil reinforcement)

Common sizes & typical application scenarios

Item	Typical stock / range	Typical application scenarios
Thickness	1.0, 1.5, 2.0, 3.0 mm (overall) with SS foil/tanged inserts 0.1 - 0.2 mm	High-pressure steam flanges, refinery piping, exchanger covers, applications needing extra blow-out resistance.
Sheet formats	Similar sheet sizes (1000×1500 / 1500×1500 mm) or custom rings	Pre-cut reinforced rings for rotating equipment, compressors, and high-cycle flanges.

4) Metal-clad / Metal-lined Graphite Composites (graphite laminated onto thin metal foil / PTFE-graphite hybrids)

Common sizes & typical application scenarios

Item	Typical stock	Typical applications
Thickness	1.0 - 3.0 mm typical overall	High-pressure or corrosive-service flanges where a hard-faced layer is beneficial (refineries, chemical plants).
Sheet formats	Custom laminate sheets and pre-cut gaskets	Where graphite sealing is needed but flange corrosion or leak-path protection required.

5) High-purity / Specialized Graphite Sheet (nuclear, aerospace, specialty gasketing)

Common sizes & typical application scenarios

Item	Typical stock	Typical applications
Thickness	0.5 - 3.0 mm common; custom for specialty applications	Reactor flange gaskets, nuclear valve gaskets, high-purity process lines.