

Non-Asbestos Gaskets — Common Sizes / Applications

1) Compressed Aramid Fiber (Aramid + Elastomer binder / CNAF)

Common sizes & application scenarios

Item	Typical stock / range	Common application scenarios
Sheet thickness (mm)	0.5, 0.8, 1.0, 1.5, 2.0, 3.0 (0.5 - 3.0 mm common)	0.5 - 1.0 mm: instrument covers, small pump gaskets. 1.0 - 2.0 mm: pipe flanges, valves, pumps. 2 - 3 mm: heavier flanges / larger bolted joints.
Sheet panels / rolls	1000×1000, 1000×1500, 1500×1500 mm; roll widths 1000 - 1500 mm	Panels used for die/CNC cutting multiple gaskets.
Pre-cut rings / flange rings	Cut to standard flange sizes (ASME/DIN/JIS)	General service piping, pumps, heat-exchanger covers.
Typical industries	Water, oil & gas (low-to-medium temp), chemical (non-aggressive), HVAC, general plant maintenance.	

2) [Flexible Graphite](#) (Expanded / Impregnated Graphite Sheets & Laminates)

Common sizes & application scenarios

Item	Typical stock / range	Common application scenarios
Thickness (mm)	0.1 - 3.0 mm (0.08 mm foils up to ~3 mm sheet stock); common gasket stock: 0.3, 0.5, 1.0, 1.5, 2.0 mm.	0.1-0.5 mm: thin jacket gaskets, spiral-wound filler, heat-exchanger gaskets. 1-2 mm: flange gaskets for steam & refinery lines. 2-3 mm: heavy duty flange sealing, thicker ring gaskets.
Sheet sizes / rolls	Rolls widths 610, 1000, 1524 mm; sheet panels 1000×1000, 1500×1500 mm	Used to die/CNC cut multi-hole manifold gaskets and ring seals.
Laminates / reinforced	Graphite bonded to SS foil or with tanged metal insert	Use for high-pressure / cyclic services, steam & petrochemical flanges.
Typical industries	Refining, petrochemical, power generation, steam systems, heat exchangers.	

3) PTFE / ePTFE (Virgin PTFE, Structured PTFE, Expanded PTFE)

Common sizes & application scenarios

Item	Typical stock / range	Common application scenarios
Thickness (mm)	0.5, 1.0, 1.5, 2.0, 3.0, 4.0, 5.0 (solid PTFE available thicker); ePTFE foils thinner (0.2-1.5 mm common)	0.5-1.5 mm: chemical flange gaskets, sanitary fittings. 2-4 mm: larger flanges, corrosive process lines.
Sheet sizes / rolls	1000×1000, 1200×1200, 1500×1500 mm panels; rolls for ePTFE films	Used widely in chemical plants, pharma, food processing, semiconductor.
Filled / structured grades	Glass-filled, graphite-filled, carbon-filled for wear or lower creep	Choose filled PTFE where friction or compressive creep is a concern.
Typical industries	Chemical processing, pharmaceutical, food & beverage, semiconductor, corrosive chemical piping.	

4) Spiral-Wound Gaskets (metal + filler - graphite / PTFE / ceramic technology)

Common sizes & application scenarios

Item	Typical stock / range	Common application scenarios
ASME flange classes	Available for Class 150, 300, 600, 900, 1500, 2500 (standard sizes per ASME B16.5/B16.47)	High-pressure steam, refinery reactors, heat exchangers, pipeline flanges.
Filler types & thickness	Graphite filler (thin wound layers), PTFE filler (for aggressive chemicals), ceramic fiber (for extreme high-T)	Choose graphite filler for high-T steam/refinery; PTFE for corrosive low-T chemicals.
Inner/outer rings	Used with centering rings for flange support / blowout prevention	Critical for raised face or ring type joint (RTJ) retrofit and high-pressure sealing.

5) Kammprofile / Metallic (metallic corrugated plate with soft facing — e.g., Flexpro / Kammprofile)

Common sizes & application scenarios

Item	Typical stock / range	Common application scenarios
Thickness / construction	Overall thickness 1.0 - 6.0 mm depending on metal core & facing thickness	Use for large bore flanges, high-pressure steam, refinery process vessels.
Sheet / ring formats	Custom manufactured to flange OD/bolt patterns; standard sheet panels for cutting	Common in retrofits where flange faces are damaged or misaligned.

6) Metal-Clad / Metal-Facing (graphite/PTFE bonded to metal foil)

Common sizes & application scenarios

Item	Typical stock / range	Common application scenarios
Thickness	0.5 - 3.0 mm overall common (metal foil gauge varies)	Steam & chemical flanges where corrosion or oxidation protection of graphite is required.
Format	Sheet panels; pre-cut rings for common flange sizes	Chemical/petrochemical and power plant services.

7) Soft Elastomeric / Cork & Cork-NBR / Rubber Gaskets (non-asbestos soft gaskets)

Common sizes & application scenarios

| Item | Typical stock / range | Common application scenarios |

|---|---|

| Thickness (mm) | 1.0, 1.5, 2.0, 3.0, 4.0, 6.0, 8.0 | 1-3 mm: instrument covers, oil pans. 3-6 mm: vibration pads, pump bases. |

| Sheet panels / rolls | 1000x1000 mm, 1200x1000 mm; rolls for thin sheets | Automotive, machinery covers, low-pressure pipe flanges. |