Exhaust Gaskets — Common Sizes / Applications

1) Multi-Layer Steel (MLS) — exhaust flange rings / multi-layer steels with coatings

Common sizes & typical application scenarios

Item	Typical stock / range	Typical application scenarios
Thickness (mm / in)	0.5, 0.8, 1.0, 1.2, 1.5 mm (≈0.02 - 0.06″)	Thin rings (0.5 - 1.0 mm) for small-pipe flanges & motorcycle gaskets; 1.0 - 1.5 mm for automotive & turbo flanges.
Inner diameters (ID) — pipe gaskets	Common IDs: 44 - 50 mm (1.75″ - 2″), 57 mm (2.25″), 63.5 mm (2.5″), 76 mm (3″), 100 mm (4″)	44 - 63.5 mm IDs common for passenger cars; 76 - 100 mm and up for trucks / performance systems.
Flange types	2-bolt slotted/round, 3-bolt triangular, 4-bolt oblong, turbocharger flange, manifold multi-hole rings	Use MLS rings on standard bolted connections and turbocharger flanges.

2) Flexible / Impregnated Graphite (graphite laminate / graphite steel-reinforced)

Common sizes & typical application scenarios

Item	Typical stock / range	Typical application scenarios
Thickness (mm)	0.3, 0.5, 1.0, 1.5, 2.0, 3.0	0.3–0.8 mm: thin turbo flange / catheter gaskets; 1.0–2.0 mm: manifold ports and downpipe flanges; 2–3 mm for thick ring / heavy-duty applications.
Sheet / ring formats	Pre-cut rings, multi-hole port plates (head/manifold patterns), rolls for custom cutting	Multi-hole manifold gaskets and cut rings for pipe flanges.

3) Metal-Graphite Sandwich / Composite (metal faces + graphite core)

Common sizes & typical application scenarios

Item	Typical stock / range	Typical application scenarios
Thickness (mm)	0.5, 1.0, 1.5, 2.0, 3.0	0.5–1.0 mm: thin pipe flange rings; 1.5–3.0 mm: manifold / turbocharger interfaces needing extra stiffness.
Formats	Sheet panels (1000×1000 mm, 1500×1500 mm), pre-cut rings & multi-hole gaskets	Used where oxidation protection + conformability required.

4) Single-Layer Steel / Solid Metal Rings (copper, stainless or mild steel corrugated)

Common sizes & typical application scenarios

Item	Typical stock / range	Typical application scenarios
Thickness (mm)	0.6, 1.0, 1.5, 2.0, 3.0	Corrugated rings for truck stacks & high-flow flanges; copper crush rings used at manifold/head interfaces in some motorsport applications.
IDs & flanges	Same ID ranges as MLS (44–100+ mm) and custom large diameters for industrial exhaust	Industrial stacks and large bore exhaust systems.

5) Compressed Fiber / Composite (non-asbestos fiber + binder) — “high-temperature composite”

Common sizes & typical application scenarios

Item	Typical stock / range	Typical application scenarios
Thickness (mm)	0.8, 1.0, 1.5, 2.0, 3.0, 4.0	0.8–1.5 mm: small car flanges; 1.5–3.0 mm: heavier OEM flange joints and manifold rings.
Formats	Die-cut rings, 2-bolt / 3-bolt / 4-bolt flanges, multi-hole manifold gaskets	Common on aftermarket replacement markets (AutoZone, NAPA, eBay listings).

6) Ceramic-coated & high-temperature specialty coatings

A — Properties (typical)

Property	Typical / notes
Construction	Base gasket (metal or composite) with ceramic coating or ceramic composite layer to resist road splash, corrosion and improve longevity.
Temperature capability	Coating protects at typical exhaust temps; used when external corrosion or road-salt damage is a concern.
Typical uses	External-facing flanges (underbody), road/rail vehicles subject to salt/corrosion.

Common sizes & typical application scenarios

Item	Typical stock / range	Typical application scenarios
Thickness	Similar to base gaskets (0.8–3.0 mm)	Road vehicles; exhaust outlets exposed to the environment.