

## Carbon-Fiber braided packing—**Size Chart / Common Sizes / Specifications**

### Common sizes & typical application scenarios

Form	Typical stocked sizes	Typical packaging	Typical applications
Round braided cord	Ø 2 - 12 mm (common: 3, 4, 5, 6, 8, 10 mm)	Small spools (1 - 10 m), reels (10 - 100 m), boxed coils; pre-cut rings available	Chemical process pumps, valve stems, seals in aggressive chemical service where low friction and chemical inertness are required.
Square braid	3×3 → 8×8 mm	Same as round	Higher contact area for reciprocating shafts and better corner sealing on valves/pumps.

### B — Carbon-fiber braided with graphite / carbon dispersion (graphite-enhanced carbon)

### Common sizes & typical application scenarios

Form	Typical stocked sizes	Typical applications
Round cord	Ø 4 - 12 mm (4, 5, 6, 8, 10 mm common)	Steam pumps, boiler feed pumps, heat-exchanger feed pumps, medium-high temperature valves where improved heat dissipation and lower leakage required.
Square braid	4×4 → 6×6 mm	Reciprocating pump glands, control valve stems in higher-T service.

## C — Graphite packing with carbon-fiber corners (carbon-reinforced graphite)

### Common sizes & typical application scenarios

Form	Typical stocked sizes	Typical packaging	Typical applications
Round braid (graphite body with carbon corners)	Ø 4 - 16 mm (4, 6, 8, 10, 12 mm common)	Reels, pre-cut ring kits	Refinery pumps, high-temperature steam valves, petrochemical process pumps that need graphite sealing with improved mechanical life.
Square braid	4×4 → 8×8 mm	Pre-cut rings for reciprocating equipment	Applications with cyclic loading and where extrusion was previously limiting graphite life.

## D — Metal / wire-mesh or Inconel-jacketed carbon braid (jacketed carbon packings)

### Common sizes & typical application scenarios

Form	Typical stocked sizes	Typical applications
Jacketed round braid	Ø 6 - 20+ mm (larger OD due to jacket)	Slurry pumps, mining, dredging, pulp & paper high-abrasion pumps, heavy marine shaft seals where abrasion and extrusion control are critical.
Custom jackets	made-to-order sizes	Specialty heavy-duty services; often ordered per OEM or maintenance schedule.

## E — Hybrid carbon + synthetic core braids (carbon + aramid/graphite/PTFE combinations)

### Common sizes & typical application scenarios

Form	Typical stocked sizes	Typical applications
Round / square hybrid braids	Ø 4 - 12 mm; square 4×4 → 6×6 mm	Pumps handling abrasive slurries with chemical attack, high-speed shafts needing low friction yet high toughness, mixers and agitators in chemical plants.