

Encapsulated O-Rings

PTFE-jacketed O-rings for aggressive chemical and solvent service.

Encapsulated O-rings combine a PTFE or FEP jacket with an elastomer core. The jacket provides chemical resistance while the core maintains sealing force, making them suitable for solvents, acids and aggressive media where standard elastomers would swell or degrade.

KEY FEATURES

- PTFE or FEP jacket
- FKM or silicone core
- Chemical and solvent resistance
- Low friction surface

SPECIFICATION

ITEM	VALUE
Size range	10–300 mm ID
Cross-section	2.0–6.0 mm
Jacket	PTFE or FEP
Core	FKM or silicone
Temperature	-30 to 200 °C
Options	FDA-grade materials

STANDARDS AND MATERIALS

Standards: ISO 3601; ASTM D2000; FDA-grade options.

Materials: PTFE jacket / FKM core; FEP jacket / silicone core.

ORDERING RANGE

Representative configurations. The full size, material and connection range is confirmed on the order acknowledgement.

ID × CS	JACKET	CORE	TEMPERATURE	PART NUMBER
25 × 3.0 mm	PTFE	FKM	-30 to 200 °C	BGI-ORE-025-30-PTFE
50 × 4.0 mm	PTFE	FKM	-30 to 200 °C	BGI-ORE-050-40-PTFE
100 × 5.0 mm	FEP	Silicone	-30 to 180 °C	BGI-ORE-100-50-FEP
150 × 6.0 mm	FEP	Silicone	-30 to 180 °C	BGI-ORE-150-60-FEP

APPLICATIONS

- Chemical processing
- Solvent handling
- Pharmaceutical equipment
- Aggressive media

ORDERING NOTES

Confirm size, pressure class, facing or connection, material and quantity when ordering. For critical service, include the project specification, NDE requirements and documentation package. Alternative materials, coatings, tappings and special dimensions are quoted on request.

Range: O-Rings & Seals. Document reference: DS-ENCAPSULATED-O-RINGS · Rev. 04.

Ordering and technical support

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Quotations are prepared against the released specification. Certified drawings are issued with the order.