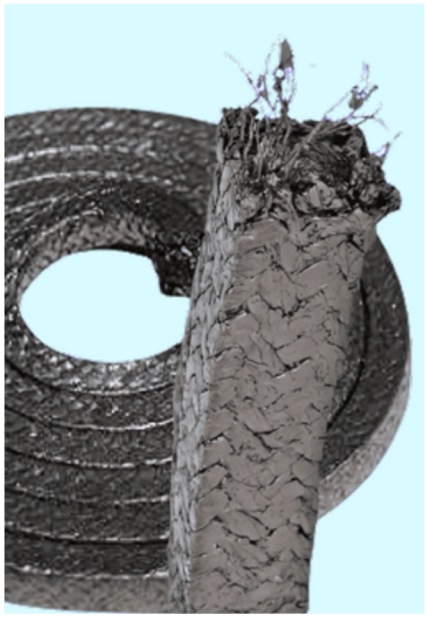
Sealmax Style 900I - Expanded Graphite with Inconel Wire

Sealmax Style 900I is a braided packing manufactured from low-Sulphur expanded graphite yarn, reinforced with a glass fibre carrier and Inconel wire to enhance mechanical strength and extrusion resistance. A sacrificial corrosion inhibitor is incorporated to reduce the risk of galvanic corrosion on valve stems and stuffing box components.

Style 900I exhibits excellent flexibility and compressibility, allowing it to adapt to stem and stuffing box irregularities while maintaining sealing integrity. It features a very low coefficient of friction, high thermal conductivity, and excellent resistance to ageing. The packing does not harden over time, has an extended shelf life, and remains chemically inert, except in the presence of strong oxidizing agents.



Typical Applications

Style 900-I is primarily used in valves operating under severe service conditions in:

- Power stations
- Boiler houses
- Petrochemical and refinery installations
- High-temperature and high-pressure process industries

It is a preferred alternative where the performance of graphite rings is required along with the flexibility of a braided packing.

Benefits:

- Combines the sealing efficiency of graphite rings with the flexibility of braided packings
- Enhanced mechanical strength due to Inconel wire reinforcement
- Very low friction reduces stem wear and operating torque
- High thermal conductivity aids heat dissipation
- Does not harden or embrittle with age
- Reduced maintenance and extended service life
- Economical replacement for asbestos-based packings

Limitations:

- Not suitable for applications involving highly oxidising agents
- Performance is dependent on proper installation, stem condition, and correct gland loading

OPERATING LIMITS			
	ROTATING	RECEIPROCATING	STATIC
Pressure	-	-	400 bar
Density	1.2 g/cm³		
Operating Temperature	-240 °C to +450 °C		
Temperature with Steam	Upto +650 °C		
PH Range	0 to 14		
Sizes Available	3mm to 25mm		
Spool Size	1 / 2 / 5 Kgs		

All technical data and recommendations are given based on our experience. However, we assume no liability whatsoever. All data and values must be verified by the user, as the effectiveness of a seal can only be accurately judged by evaluating all data parameters directly on site. The stated parameters of all packing styles are approximate and may be influenced if occurring together. We suggest you to contact us in case of any special applications.

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