



HEXA:GRAF® FOIL 98.5%
Expanded Graphite
+ Inconel Wire Jacket



X-CROSS™
PATTERN

The best packing for static sealing.
HEXAGRAF® Foil with Inconel Jacket.

INCO:GRAF® FOIL is an inter-braided packing constructed from layers of flexible, expanded graphite foil with individually reinforced corrosion inhibitors and an Inconel® wire jacket, subsequently lubricated to reduce friction with the stem.

INCO:GRAF® FOIL is a high-performance valve packing, specially designed for high-temperature and high-pressure steam applications. It is self-lubricating, does not harden, is dimensionally stable, and easy to install. The Inconel® jacket prevents packing extrusion, and its advanced structure ensures superior sealing for fugitive emission control.

Benefits

Superior Thermal Stability: NOX® technology delays the oxidative degradation typical of graphite, allowing safe operation at higher temperatures for longer periods.

Maximum Pressure Resistance: The Inconel jacket on each thread provides unparalleled tensile and extrusion resistance, ideal for valves subjected to critical pressures.

Excellent Chemical Resistance: Chemically inert to most industrial fluids, covering almost the entire pH spectrum.

Low Friction and Self-Lubrication: Protects valve stems against wear and scoring, reducing maintenance costs.

High Thermal Conductivity: Dissipates heat quickly, preventing overheating in the sealing area.

Applications:

Power generation (Thermal power plants).

High-pressure, high-temperature steam valves.

Chemical industry and aggressive fluid processing.

Control and isolation valves subjected to severe thermal cycling.

This product is designed for use in valves and other static applications; do not use it on rotating shafts.

Common equipment:

- Control and isolation valves subjected to severe thermal cycling.
- High-pressure, high-temperature steam valves.

Common fluids:

- Saturated steam.
- Gases.
- Condensate.
- Thermal oils.
- Hydrocarbons.
- Solvents.



TECHNICAL DATA

Properties:	INCO:GRAF® FOIL	Packing
Composition:	HEXA:GRAF® FOIL 98.5% Expanded Graphite + Inconel Wire Jacket	
Temperature, Max:	1,202	°F (peak)
Temperature, Continuous:	842	°F
Temperature, Min:	-400	°F
Max. Pressure, Valves:	6,527	psi
Shaft Speed:	--	fpm
pH Range:	0-14	

****The maximum temperature and pressure limits should not occur simultaneously.**

AVAILABILITY:

Availability:	INCO:GRAF® FOIL	Packing
1/8", 5# Boxes:	98.22	ft / lbs.
3/16", 5# Boxes:	40.00	ft / lbs.
1/4", 5# Boxes:	24.11	ft / lbs.
5/16", 5# Boxes:	17.86	ft / lbs.
3/8", 5# Boxes:	10.36	ft / lbs.
7/16", 5# Boxes:	8.57	ft / lbs.
1/2", 5# Boxes:	5.89	ft / lbs.
9/16", 5# Boxes:	4.82	ft / lbs.
5/8", 11# Boxes:	3.75	ft / lbs.
3/4", 11# Boxes:	2.68	ft / lbs.
7/8", 11# Boxes:	2.14	ft / lbs.
1", 11# Boxes:	1.79	ft / lbs.
Thickness Tolerance:	±10	%

Notes:

The packaged product may have a variation of ±10%. *Other millimeter measurements and larger cross-sections are available upon request.