



HEXA:GRAF® 98% Expanded Graphite + Inconel + TiNOX™ Technology



Expanded graphite reinforced with Inconel®, but with TiNOX™ technology for better sealing and easy removal.

INCO:GRAF® W is a high-performance packing with an inter-braided construction, manufactured from 98% expanded graphite yarns with an inorganic carrier reinforced with Inconel® wire and the new TiNOX™ technology. This hybrid combination allows it to resist most chemicals within the pH range of 0-14 (except strong oxidizers).

The new TiNOX™ technology seals the natural microporosities of the graphite, allowing for zero leakage even with penetrating gases and fluids, while the Inconel® reinforcement carrier provides superior structural stability, preventing extrusion in high-pressure applications.

The passive additive included in TiNOX™ technology helps contain corrosion, while improved lubrication reduces friction and allows the valve actuator to respond smoothly and without skipping, also facilitating removal.

The high compressibility and flexibility of INCO:GRAF® W give it the ability to easily conform to irregularities in the stem and packing, maintaining its airtight seal throughout its service life without hardening or aging.

Benefits:

- **Superior Safety:** Good anti-extrusion resistance at high pressures and temperatures.
- **Airtight Seal:** TiNOX™ technology blocks gas and vapor leaks.
- **Equipment Protection:** Self-lubricating, it reduces stem skipping.
- **High Adaptability:** It conforms to stems with wear or slight deflections.
- **Operational Efficiency:** It does not age and significantly extends maintenance downtime.
- **Zero Corrosion:** Its passive additives prevent equipment corrosion.

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

Common equipment:

- Control valves.
- Shut-off valves.

Common fluids:

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



TECHNICAL DATA

Properties:	INCO:GRAF® W	Packing
Composition:	HEXA:GRAF® 98% Expanded Graphite + Inconel + TiNOX™ Technology	
Temperature, Max:	1,202	°F (peak)
Temperature, Continuous:	842	°F
Temperature, Min:	-400	°F
Max. Pressure, Valves:	4,351	psi
Shaft Speed:	--	fpm
pH Range:	0-14	

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

AVAILABILITY:

Availability:	INCO:GRAF® W	Packing
1/8", 5# Boxes:	114.59	ft / lbs.
3/16", 5# Boxes:	50.60	ft / lbs.
1/4", 5# Boxes:	28.28	ft / lbs.
5/16", 5# Boxes:	20.83	ft / lbs.
3/8", 5# Boxes:	13.54	ft / lbs.
7/16", 5# Boxes:	11.31	ft / lbs.
1/2", 5# Boxes:	9.97	ft / lbs.
9/16", 5# Boxes:	7.59	ft / lbs.
5/8", 11# Boxes:	6.25	ft / lbs.
3/4", 11# Boxes:	4.32	ft / lbs.
7/8", 11# Boxes:	3.42	ft / lbs.
1", 11# Boxes:	2.23	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.	

Trusted Sealing Solutions.