

RAITECH® **HEXA:GRAF® 100** *graphite, only better.*

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



expanded graphite, but with TiNOX™ technology for better sealing and easy removal.

HEXA:GRAF® 100 is a high-performance packing with an inter-braided construction, manufactured from 98% expanded graphite yarns reinforced with an inorganic carrier and the new **TiNOX™** technology.

This hybrid combination allows it to resist most chemicals within the pH range of 0-14 (except strong oxidizers).

Thanks to the self-lubricating nature of expanded graphite, it has a very low coefficient of friction, capable of withstanding peripheral speeds of up to 25 m/s without causing wear on the equipment.

The new **TiNOX™** technology seals the natural microporosities of the graphite, allowing for zero-leakage operation even with penetrating gases and fluids, while the reinforcing 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 **HEXA:GRAF® 100** give it the ability to easily conform to the irregularities of the shaft and stuffing box, maintaining its airtight seal throughout its service life without hardening or aging.

Superior Safety: Good anti-extrusion resistance at high pressures and temperatures.

Airtight Seal: TiNOX™ technology blocks gas and vapor leaks.

No Flush Required: Thanks to its advanced heat dissipation, it can operate with zero leaks without seal water.

Equipment Protection: Self-lubricating and gentle on the shaft, eliminating sleeve wear. High Adaptability: Fits shafts with wear or slight deflections.

Operational Efficiency: Does not age and significantly extends maintenance downtime.

Zero Corrosion: Its passive additives prevent equipment corrosion.

Common equipment:

- Centrifugal pumps.
- Control valves.
- Shut-off valves.

Common fluids:

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

Page1/1

Data Sheet.



TECHNICAL DATA

Properties:	HEXA:GRAF® 100	Packing
Composition:	HEXA:GRAF® 98% Expanded Graphite + TiNOX™ Technology	
Temperature, Max:	1,202	°F (peak)
Temperature, Continuous:	842	°F
Temperature, Min:	-400	°F
Max. Pressure, Rotating:	435	psi
Max. Pressure, Valves:	2,901	psi
Shaft Speed:	4,923	fpm
pH Range:	0-14	

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

AVAILABILITY:

Availability:	HEXA:GRAF® 100	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.	

www.hexagraf.mx

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All technical information and recommendations given in this document are based on our experiences, however, we do not accept any liability. The data and values presented must be reviewed by the user, assuming that success in sealing can only occur by evaluating all parameters and variables directly on the job site. The parameters in this document are approximate and may have mutual influence if they occur simultaneously, please contact us in critical applications or where there is doubt.