

GTS® Thread Sealant Paste

Technical Data Sheet 116

GRAFOIL GTS graphite thread sealant paste is a patented, high-purity paste made from a combination of nuclear grade graphite and a nuclear quality petroleum-based carrier. It has all the characteristics required for long-life performance, even under the most severe conditions. GTS paste is made to seal small diameter, close tolerance threaded pipe joints in critical service applications to 635°C (1175°F) and 16MPa (2300 psi).

Applications

- Seal small diameter
- Close tolerance threaded pipe joints in critical service

Directions for Use

- Thoroughly clean threaded surfaces prior to application.
- Knead tube well (for best results, remove cap, squeeze out air, place cap back on tightly, then knead well).
- Apply paste evenly and fill threads completely. Carefully assemble and tighten the threaded joint.
- Close cap tightly after use.
- Joint is ready for immediate use.

Typical Properties*

GTS thread sealant paste can be certified to meet many nuclear specifications because of its purity and thermal stability. Supplied in a form that permits easy application, GTS thread sealant paste is an ideal replacement for Teflon® thread sealant tape and other conventional thread sealant materials in critical high temperature and high-pressure service applications.

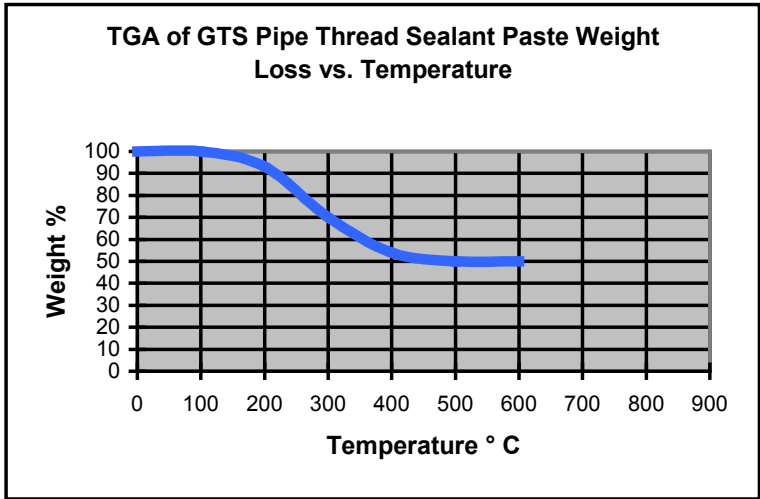
Each lot of GRAFOIL GTS thread sealant paste is packaged in 125 gm nuclear grade polyethylene “squeezeable” tubes to protect against contamination.

The purity level of GTS thread sealant paste allows it to meet the stringent certification requirements of the nuclear power generation industry such as the General Electric nonmetallic material specification D50YP12 Rev 2.

GRAFOIL GTS thread sealant paste can also be used as an effective bolt lubricant or anti-seize compound, having outperformed conventional lubricants under tests. Because GTS thread sealant paste does not harden or cure with time or temperature, joints sealed with GTS paste will be easy to disassemble even after years of high-temperature service.



Shelf Life	2- Year Min from date of first use
Storage Temp	<=38°C (100°F)
Pipe Size Limitations	<=2" (50.8 mm OD close fitting threaded joints)



TGA Analysis

Weight loss begins at about 125°C (255°F), with 6% weight loss at 200°C (390°F). GRAFOIL GTS maintains its seal up to 635°C (1175°F).

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Redefining limits

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