



PROVEN • DURABLE • RELIABLE • VERSATILE



GRAFOIL®

NEOGRAF
SOLUTIONS

GTS®

Nuclear Grade Graphite Thread Sealant Paste

The One And Only Thread Sealant Paste That Works To Near Perfection

Put It On – Go To Sleep

Overview:

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 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

GT®S 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® 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 GTS® paste is packaged in 125 gram nuclear grade polyethylene “squeezeable” tubes to protect against contamination.

The purity level of GTS® paste allows it to meet the stringent certification requirements of **Nuclear Power Generation** industry such as the General Electric non-metallic material specification D50YP12 Rev.2.



GTS® paste can also be used as an effective bolt lubricant or anti-seize compound, having outperformed conventional lubricants under tests. Because GTS® 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.

Grafoil® GTS® Thread Sealant Paste

Element	Typical Properties
Total Halogen (as Cl)	<25 ppm
Leachable Chloride	<10 ppm
Total Chlorine	<10 ppm
Total Fluorine	<25 ppm
Total Nitrite	<1 ppm
Total Nitrate	<10 ppm
Total Sulphur	<150 ppm
Embrittling Metals (No single embrittling metal >200 ppm)	<250 ppm
Shelf -Life	2 year minimum from date of first use
Storage Temperature	38°C (100°F)
Pipe Size Limitation	2" (50.8mm OD close fitting threaded joints)

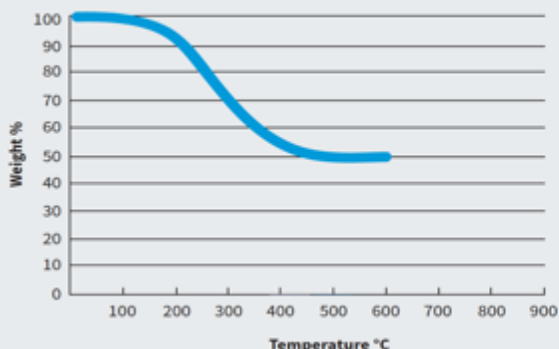
Note: Properties listed are typical and should not be used as accept/reject specifications



Markets:

- Nuclear Facilities
- Marine Equipment
- Military Equipment
- Oil & Gas
- Power Plants
- Semi-Conductor Fluid System
- Water Desalination Facilities
- Others that need high temperature resistant and corrosion free thread sealing or lubrication

TGA OF GTS PIPE THREAD SEALANT PASTE WEIGHT Loss vs. Temperature



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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