



## NICKEL HI-TEMP

### HIGH TEMPERATURE ANTI-SEIZE AND GASKET COMPOUND

Nickel Hi-Temp is a premium quality anti-seize and gasket compound for use in extreme temperatures and hostile environments. The carrier of this remarkable compound volatilizes upon exposure to high temperatures and deposits a nickel metallic plating on threaded connections, preventing metal-to-metal contact and guarding against seizing and galling.

Nickel Hi-Temp contains pure nickel flake and a nearly inert dispersing solid in a high quality, aluminum complex base grease which provides unsurpassed protection from rust by water penetration or water wash-off.

Nickel Hi-Temp does not contain copper, lead, graphite, chlorides or other halogens, phosphorus or silicones. It may be safely used with ammonia, acetylene, and vinyl monomers which are unstable in the presence of copper. Nickel Hi-Temp contains no graphite. This is an additional benefit on stainless steel applications when temperatures exceed 550°F (288°C), as graphite would carbonize and weaken the steel. The solids package in Nickel Hi-Temp produces a matrix of particles which settle in successive layers or "sandwich". This allows the solids to serve as a lubricant, cushion and seal. This layering does not allow the welding under compaction that leads to seizure and galling.

#### BENEFITS:

- LEAD-FREE - contains no lead, copper or graphite.
- PROTECTION - prevents seizure up to 2,600°F (1,427°C).
- PROTECTS AGAINST RUST AND CORROSION.
- CHEMICALLY INERT.
- ACID RESISTANT.
- STRONG RESISTANCE TO WATER WASH-OFF.
- BRUSHABLE TO 0°F (-18°C).
- NOT RUNNY - will not run, drip or settle out.

#### APPLICATIONS:

Used extensively in refineries, chemical plants, petro-chemical plants, power generation facilities and other harsh environments on items such as:

- |                 |               |
|-----------------|---------------|
| Burner Tips     | Reactor Bolts |
| Heat Exchangers | Manifolds     |
| Furnace Hinges  | Manhole Studs |
| Pipe Fittings   |               |

**Note: Not for use on oxygen or LPG lines.**

ASTM #		TYPICAL CHARACTERISTICS
	<b>Grade</b>	1.5
<b>D-217</b>	<b>Cone Penetration (Worked)</b>	290-320
<b>D-2265</b>	<b>Dropping Point, °F (°C)</b>	450 (232)
<b>Gardner Method</b>	<b>Density, lb/gal @ 60°F (15.5°C)</b> <b>Specific Gravity, g/cc @ 60°F (15.5°C)</b>	9.20 1.105
<b>D-2596</b>	<b>Four Ball EP</b> Weld Point, kg	200
<b>D-4048 (Modified)</b>	<b>Copper Strip Corrosion for Greases</b> 212°F (100°C) @ 3 hrs	1A
	<b>Thickener Type</b>	Aluminum Complex
<b>B-117</b>	<b>Salt Fog Resistance</b> 20% NaCl @ 100°F, hrs	>200
	<b>Coefficient of Friction on Stainless Steel</b>	0.15
	<b>Service Rating, °F (°C)</b>	-65 (-54) to 2600 (1427)
	<b>Color</b>	Silver Paste

*The above are average values. Minor variations which do not affect product performance are to be expected in normal manufacturing.*

#### PACKAGING

Brush Top Cans 12 - ½ lb cans	Brush Top Cans 12 - 1 lb cans
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#### THE WHITMORE MANUFACTURING COMPANY

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