



TECHNICAL DATA SHEET

KOPPER PLATE HIGH TEMPERATURE ANTI-SEIZE AND GASKET COMPOUND

Kopper Plate is a low-friction, anti-seize lubricant manufactured from a combination of micro-size copper flakes and graphite, dispersed in a water-resistant grease and fortified with antioxidants, plus rust and corrosion inhibitors. Kopper Plate contains a patented EP additive to provide extra protection no other compound can offer.

Kopper Plate provides a shield against metal-to-metal contact, thus preventing seizure and corrosion. Its ingredients create an effective matrix between mated surfaces and are unaffected by contraction or expansion. It fills irregularities and imperfections and resists welding, hardening or setting. Kopper Plate provides low friction and cushions impact and shock loads. Low shear between particles reduces stick-slip, allowing quick disassembly with minimum wrench torque. It will not squeeze out of the threads, gum up or wash off.

Kopper Plate has no equal in temperature services up to 1,800°F (982°C). Fittings that are heated red hot, then allowed to cool, can quickly be disassembled without seizure or distortion. Kopper Plate is recommended for production and maintenance jobs where speed in assembling and dismantling is essential. It assists in reducing downtime and provides full use of machinery and equipment, saving valuable man-hours while increasing production.

BENEFITS:

- LEAD-FREE - environmentally safe.
- PROTECTION - protects against seizure, heat-freeze, galling, rust and corrosion.
- LOWERS FRICTION - reduces wrench torque.
- ECONOMICAL - permits reuse of fittings; saves stud, bolt and nut replacement.
- REDUCED MAINTENANCE COSTS - speeds assembly and dismantling.
- STABILITY - not affected by contraction, expansion or vibration.
- NOT RUNNY - will not run, drip, or settle out.

APPLICATIONS:

Nut Bushings	Seals	Flanges
Chains	Bull Plugs	Tees Ways
Punches	Adapters	Packings
Some Gears	Taps Bolts	Elevators
Unions	Studs	Sheaves
Couplings	Elbows	Dies
Valve Stems	Slides	Drives
U-Bolts	Return Bands	Screws
Joints	Keyways	Press Fits
Manifolds	Tube Threads	Fittings
Lifts	Nipples	Gaskets

Note: Not for use on oxygen lines.

ASTM #		TYPICAL CHARACTERISTICS
	Grade	1.5
D-217	Cone Penetration (Unworked)	290-330
D-2265	Dropping Point, °F (°C)	500 (260)
Gardner Method	Density, lb/gal @ 60°F (°C)	10.00
	Specific Gravity, g/cc @ 60°F (°C)	1.200
D-4049	Water Spray-Off, % Loss	<12
D-4048 (Modified)	Copper Strip Corrosion for Greases	1A
	212° (100°C) @ 3 hrs	
	Thickener Type	Aluminum Complex
	Coefficient of Friction on Stainless Steel	0.11
	Service Rating, °F (°C)	-65 (-54) to 1800 (982)
	Color	Bronze 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	2 lb Cans 12 per case
----------------------------------	----------------------------------	--------------------------

THE WHITMORE MANUFACTURING COMPANY

930 Whitmore Drive • P.O. Box 9300 • Rockwall, Texas 75087 • USA • (972) 771-1000 • Fax: (972) 722-2108

An ISO 9001, ISO/TS 16949, and ISO 14001 Registered Company • <http://www.whitmores.com>

Performance Under Pressure Since 1893

LIMITED WARRANTY: The Whitmore Manufacturing Company makes the Limited Express Warranty that at the date of delivery, its goods shall be free from defects in Whitmore's materials and workmanship and shall meet the express written statements of quality, if any, made by Whitmore in connection with the sale of the goods. Other than such Limited Express Warranty, there are no express warranties made with respect to the sale of goods and all implied warranties existing under the law are expressly disclaimed and negated, particularly, Whitmore NEGATES AND DISCLAIMS THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. All other liability, either in contract or tort, including without limitation, strict liability found in Section 402A of the Restatement of Torts or otherwise, is negated and disclaimed. The sole remedy for Whitmore's breach of such Limited Express Warranty shall be a refund of the purchase price of its goods, and Whitmore shall have no responsibility for incidental or consequential damages sustained as a result of the use of the goods, whether sustained to the goods themselves or to other property. Data listed are subject to usual manufacturing variations.