



**Aerolube Technologies**



Technical Data Sheet

## **5009 Copper Lube Paste**

**Copper and solid lubricants paste for all nuts, bolts, screws, threaded connections; lead and nickel free**

### Applications

Anti seize, anti rust & effective lubricant for protection of parts operating under severe corrosion, temperatures and steam, humidity, water or chemical attack as: studs, nuts, bolts, screws, pipes, keys, u-bolts, splines, taps, slides, seals, slippers, joints, plugs, gears, chains, exhausts sprockets, valve stems, manifolds, couplings, adapters, bearings, gaskets, packings, drills, bushings, king pins, spindles.

For use on all threaded and flanged connections operating at very high temperatures to prevent seizure, corrosion and atmospheric influences as in: cat crackers, autoclaves, cylinder heads, furnace bolts, generators, fuel feed nozzles, boilers, reactors, ladles in steel plant, turbines, burners, extrusion mandrels, ovens, soot blowers, blast furnaces, pumps, engines, steel plant equipment, compressors, heat exchangers.

For use in oil rigs, refineries, petrochemical, chemical & fertilizer plants as a heavy duty thread assembly compound, pipe sealant and anti corrosion compound for components exposed to very high temperatures, steam, hot, cold, brine water, humidity, corrosive or chemical environments to provide protection, effective lubrication, sealing and corrosion protection and prevent seizure, jamming and rusting even after long operational hours under very severe conditions.

▪ **Note:** Copper Lube is not for use as a lubricant for high-speed bearings. However it may be used for lubrication of heavily loaded bearings under very slow speeds.

### Benefits

- Extremely wide service temperature range from -18°C to +1100°C.
- Eliminates metal-to-metal contact and maintains lubrication qualities under wide variations of temperature, pressures and adverse operating conditions.
- Prevents fretting, galling, tightening, welding of mating surfaces.
- Protects against galvanic corrosion between dissimilar metals in contact.
- Enables faster and rapid assembly and non-destructive disassembly even after long term exposure to high temperatures and corrosive atmospheres.
- Prevents stripping and cold-welding of threads and avoids sintering, fusion, thread stripping, bolt breaking and distortion.
- Low friction properties reduce wear and friction to increase life of the equipment and avoid costly replacements.
- Highly resistant to hot and cold water, steam, humidity, brine water, mild acids and alkalis, corrosion, aging and oxidation.

### Directions for Use

Clean and degrease the surface prior to application. Rub in a thin uniform film of this paste with a hard brush or cloth on contact surface. Remove any excess. Clean the roller bearing surface with a solvent. Apply a very thin layer of this paste between roller bearing contact points and rotate the bearing to form a uniform, thin lubricating film. Use sparingly and not in excess as is customary with greases. Do not mix with other oils or grease.

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## 5009 Copper Lube Paste

### TECHNICAL PROPERTY

PARAMETER	VALUE	UNIT	METHOD
Type	Solid lubricants, metal powders in oil		
Appearance	Smooth homogenous paste		
Color 1	Copper		
Penetration			
- worked, 60	280-310	mm/10	ASTM D 217
- unworked	250-280	mm/10	
NLGI Class	1-2		DIN 51 818
Density, @ 25°C	1.3-1.4	g/cm <sup>3</sup>	
Drop point	None	°C	ASTM D 566
Service temperatures 2	-18 to +1100	°C	
SKF-Emcor Degree of corrosion	0 / 0		DIN 51 802
Water resistance, static evaluation	1-90		DIN 51 807 pt.1
Coverage	2-3	m <sup>2</sup> /can	

1. Minor color variation of the same product but of different batches could be possible. However the lubrication values remain unchanged.
2. Solid lubricants maintain lubrication up to +1100°C

#### Available Packaging

500 ml Aerosol Spray, 500g, 1 kg, 5 Kg

#### Shelf Life

60 months from date of manufacture in sealed condition.

#### General

Use in well ventilated areas. Avoid continuous breathing of vapor and spray mist. In closed areas or areas with poor ventilation, use respiratory protection. For complete details on safety, short and long term exposure, refer to this product's safety data sheet (SDS).

#### Disposal

All used and unused product should be disposed of in accordance with state regulations.

#### Handling

Read instructions on the container label of the product before use. The product safety data sheet (SDS) contains the relevant information regarding personal protective equipment, safe use, physical and health hazards. Safety data sheet is available from Aerolube or your local Aerolube distributor.

#### Limited Warranty

The information and data contained in this sheet is accurate to the best of our knowledge or is obtained from sources, tests or experiences believed by us to be reliable and accurate. User is responsible for determining whether recommended Stanvac product is fit for a particular purpose. All products should be tested for suitability on a particular application prior to actual use. We make no representations of any kind. Data offered without warranty. Product manufactured is for industrial use only.

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