



Aerolube Technologies



Technical Data Sheet

5014 Copper and Solid lubricants Paste for all Nuts, Bolts, Screws, Threaded Connections; Lead and Nickel Free

Applications

- Highly recommended for use on all threaded and flanged connections operating at very high temperatures and corrosive conditions to enable faster and rapid non destructive disassembly after long operational periods as in autoclaves, furnaces, boilers, reactors, turbines, extrusion mandrels, compressors, heat exchangers, gas generators, plastic molding machines, chemical and steel plant equipment.
- Heavy duty thread compound for studs, nuts, bolts, valve stems, spindles, exhaust pipes, cylinder and engine head screws, steam lines exposed to high temperatures, water and corrosives to provide complete protection from seizure and corrosion and which also need to be reopened or retightened after assembly and initial operational period.

Benefits

- Extremely wide service temperature range of -30°C to +1100°C
- Makes disassembly easy and non-destructive even after long operational periods at high temperatures and adverse working environments
- High load withstanding capacity
- Creates an effective matrix between mating surfaces to prevent metal-to-metal contact
- Protects surface from wear and friction
- Good corrosion protection
- Water resistant
- Free from heavy metals such as lead or nickel
- Ensures consistent tightening of threaded connections and provides an optimum balance between torque required to tighten and pretension
- Prevents bolt breaking, sintering, fusion, seizure, thread striping and distortion of threads
- Good electrical conductivity

Directions for Use

Clean and degrease the surface with a wire brush to remove all previous residues or any micro rust prior to application. Apply this paste with a wire brush in adequate quantity on the surface and right down to the base stem of the thread. The excess paste need not be removed as it provides a good sealing effect. Do not mix with other oils or greases.

Available Packaging

1 kg

Shelf Life

60 months from date of manufacture in sealed condition.

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TECHNICAL PROPERTY

PARAMETER	VALUE	UNIT	METHOD
Type	Solid lubricants, metal powders and additives in oil		
Appearance	Smooth homogenous paste		
Color 1	Dark copper brown		
Penetration - unworked	250-280	mm/10	ASTM D 217
Density, @ 25°C	1.4-1.5	g/cm3	
Drop point	None	°C	ASTM D 566
Service temperatures 2 - as solids lubrication	-20 to +1100	°C	
SKF-Emcor Degree of corrosion	1		DIN 51 802
Water resistance, static evaluation	1-90		DIN 51 807 pt.1
Coverage	2-3	m2/can	
Four ball test, weld load	4800	N	DIN 51 350 pt. 4
Four ball test, wear scar, 800N load	1.1	mm	DIN 51 350 pt. 5

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

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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