Flex-Copper

Flex- Copper is a high performance lubricant and anti-seize compound designed for use on threaded fasteners in high temperature service.

Flex-Copper prevents seizure and galling of fasteners during assembly even in the harshest pressure and temperature environments

Description

Flex-Copper is a copper based lubricant / anti-seize compound specially formulated to reduce wear and friction between the mating surfaces of threaded fasteners in high temperature service (up to 1100ºC).

Flex-Copper offers protection from rusting, oxidisation and chemical attack on metal threaded fasteners. The unique properties of Flex-Copper enable it to reduce wear and stress in areas of high friction and facilitate quick and easy assembly/break out of threaded connections.

Service

Suitable for use as an anti-seize lubricant for pressure boundary flanged bolted connections that are subject to temperatures ranging from -30°C (-22°F) up to 1100°C (2012°F). Flex-Copper is suitable for use with most common bolt materials with both coarse and fine thread forms. The anti-seize properties of Flex-Copper allow for a quicker, simpler and smoother process for break out of threaded fasteners even after aggressive service.

Flexitallic recommend that Flex-Copper is used as part of a controlled flange assembly procedure in line with industry best practice. Please contact Flexitallic Applications Engineering Dept. for further guidance.

Availability

500g plastic container.

Application

Ensure the paste is thoroughly mixed prior to use. All fastener mating surfaces should be clean and free form debris, if necessary clean the threads and nut abutment surfaces with a wire brush. Apply the paste liberally to the fastener threads ensuring thorough coverage especially over the working length of the threads. Apply the paste to the abutment surface of the nut. There should be no or very little resistance when manually running the nut up along male thread.

THIS PASTE MUST NOT BE MIXED WITH ANY OTHER COMPOUNDS, GREASE OR OILS.

Physical properties

Coefficient of Friction	0.11
K factor	0.15
Temperature Range	-30°C to 1100°C
Physical State	Semi Solid State
Colour	Copper
Odour	Odourless
pH	
Boiling Range/Point	
Melting Point	
Flash Point (PMCC)	200°C
Auto Ignition Temperature	

Health & Safety

For further Health and Safety information please see the relevant Material Safety Datasheets or contact Flexitallic UK Ltd.