



JLS® (JET-LUBE® SPECIAL) TOOL JOINT COMPOUND

DESCRIPTION

JLS® Tool Joint Compound is a high-quality product containing premium grade copper flake, amorphous graphite, rust and corrosion inhibitors, and other inorganic solids. All are blended in **JET-LUBE's** unique grease compounded from custom refined, low-sulfur oil to ensure brushability over a wide temperature range, tenacious adherence to all surfaces, resistance to water washout, and prevention of rust/corrosion.

JLS is a result of laboratory and field development efforts spanning several decades. It is manufactured under the industry's toughest quality control regimen and is especially designed to prevent thread and shoulder wear, and to provide superior performance on the rig floor and downhole in medium duty drilling just as **KOPR-KOTE®** and **JET-LUBE 21®** perform in more severe conditions. **For inverted muds or high pH muds use 21 or JET-LUBE EXTREME.**

- Lead Free
- Zinc Free
- Formulated with a proprietary blend of copper flake, graphite, and other inorganic additives for protection and prevention of excessive circumferential make-up of tool joints in average drilling conditions.
- Unique high temperature grease base with brushability over a wide temperature range.
- Sticks to wet joints.
- Low Sulphur content.
- Consistent rig floor make-up.
- Resistance to further make-up downhole in medium drilling.

APPLICATIONS

JLS is recommended for use on tool joints in drilling medium depths and formations. It provides consistent control of makeup and break-out in these conditions and protects against galling and seizure. **JLS** prevents excessive stresses which shorten tool joint life, and the metallic solids of **JLS** form a gasket on threads and shoulders that prevent metal-to-metal contact under high torque loads.

PRODUCT CHARACTERISTICS

Thickener	Aluminum Complex
Fluid Type	Petroleum
Color/Appearance	Bronze Paste
Dropping Point (ASTMD-566)	450°F (232°C)
Gravity	1.18
Density (lb/gal)	9.9
Oil Separation (ASTMD-6184)	<3.0
WT. % LOSS @212°F (100°C)	
Flash Point (ASTM D-92)	>430°F (221°C)
NLGI Grade	1
Penetration@77°F (ASTMD-217)	310 - 330
Copper Strip Corrosion (ASTM D-4048)	1A
4-Ball (ASTM D-2596)	
Weld Point, kfg.	620
Friction Factor*	1.1
(Relative to API RP 5A3 Annex I)	

* Many factors such as pipe size, thread geometry, drilling mud contamination, etc. affect the friction factor. This is a relative number and in all applications experience and prior knowledge should be used to adjust make-up torque accordingly.

This thread compound conforms with API RP 5A3 for use with rotary shouldered connections.

For package types and part numbers
www.jetlube.com/resources/product-index/

Limited Warranty
www.jetlube.com/assets/documents/Jet-Lube_Warranty.pdf