SUPERIOR TOOL JOINT 50% ZINC

HIGH PERFORMANCE TOOL JOINT COMPOUND

SUPERIOR TOOL JOINT 50% ZINC contains fine zinc powder and meets the requirements of API RP 5A3 Annex 1. Special additives prevent excessive buildup of zinc.

SUPERIOR TOOL JOINT 50% ZINC provides a shield against metal-to-metal contact, thus preventing seizure and corrosion. Its ingredients create an effective matrix between mated surfaces that is unaffected by contraction or expansion. It fills irregularities and imperfections and resists welding, hardening or setting. SUPERIOR TOOK JOINT 50% ZINC provides low friction and cushions impact and shock loads. Low shear between particles reduces stick-slip, allowing quick disassembly with minimum wrench torque.

SUPERIOR TOOL JOINT 50% ZINC is based on an aluminum complex soap thickener. This ensures good mobility in cold weather, making application by brush possible over a wide temperature range. It also provides excellent resistance to water. It can be applied to wet tool joints.

BENEFITS:

- ENVIRONMENTAL – contains no lead.
- PROTECTION - protects against seizure, heat-freeze, galling, and corrosion.
- LOWERS FRICTION - reduces wrench torque.
- REDUCED MAINTENANCE COSTS - speeds assembly and dismantling.
- STABILITY - not affected by contraction, expansion or vibration.
- NOT RUNNY - will not run or drip.

APPLICATIONS:

SUPERIOR TOOL JOINT 50% ZINC provides maximum protection for tool joint threads and shoulders in all drilling conditions including the most severe. It ensures consistent rig floor make up while providing some resistance to further downhole make up.

ASTM #	TYPICAL CHARACTERISTICS	
	NLGI Grade	1.5 to 2
D-217	**Cone Penetration** (Worked)	275 to 305
D-2265	**Dropping Point**, °F (°C)	385 (196)
Gardner Method	**Density**, lb/gal @ 60 F 15.5°C	12.43
	Specific Gravity, g/cc @ 15.5°C	1.49
	Thickener Type	Aluminum Complex
D-2596	**Four Ball EP,** Weld Point, Kg	500
	Friction factor	1.0
	***Lowest temperature for applying, °F (°C) (Product may be warmed below this temp.)**	0 (-18)
	Service range once applied, °F (°C)	-50 (-45) to 300 (150)

The above are typical values. Minor variations which do not affect product performance are to be expected in normal manufacturing.

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