



209

LEAD-FREE TOOL JOINT COMPOUND

- GEAR OILS
- MOTOR OILS
- HYDRAULIC OILS
- PIPE COATINGS
- THREAD SEALANTS
- BEARING GREASES
- SPECIALTY GREASES
- THREAD COMPOUNDS
- SUCKER ROD COATINGS
- OUTSIDE PRESERVATIVES
- WIRELINE GREASE SEALS
- CLEANERS & DEGREASERS
- PIPE STORAGE COMPOUNDS
- RUST & CORROSION INHIBITORS
- THREAD LOCKING COMPOUNDS
- VALVE LUBRICANTS & SEALANTS
- TOOL JOINT & DRILL COLLAR COMPOUNDS

PRODUCT DESCRIPTION

209 Lead-Free Tool Joint Compound is recommended as the economical choice for tool joints and drill pipe during light-duty drilling operation. 209 Lead-Free Tool Joint Compound is manufactured using heavy-duty solid lubricants to provide maximum performance. It will not run or drip. 209 Lead-Free Tool Joint Compound provides protection against salt water intrusion, corrosion, galling, and seizing. 209 Lead-Free Tool Joint Compound is recommended as a replacement for Jimmy Gray or similar compounds which have been discontinued due to lead content. 209 Lead-Free Tool Joint Compound is highly recommended for light-duty water well drilling. 209 Lead-Free Tool Joint Compound is unaffected by H₂S or drilling fluids.

BENEFITS

- Lead-Free
- Protects against salt water intrusion
- Protects against galling and seizing
- Washout resistant
- Will not run or drip

APPLICATION

209 Lead-Free Tool Joint Compound may be used as an economical choice for tool joints, casing, drill pipe, and most pipe line connections during light-duty drilling operation.

TYPICAL OBSERVATIONS

Appearance	Paste
Color	Dark to Reddish Brown
Density, lb/gal @ 77°F (25°C)	9.18
Specific Gravity, 77°F (25°C)	1.10
Dropping Point, ASTM D-3365	390°F (199°C)
Flash Point, ASTM D-217	400°F (204°C)
Penetration, ASTM D-217	
worked @ 77°F (25°C)	315–325
Base Oil Viscosity	
SUS @ 100°F (37°C)	
SUS @ 210°F (98°C)	
Oil Separation,	
ASTM D-1742 @ 77°F (25°C)	Nil
Sulphur Content, Typical	0.1%
Friction Factor, API RP 5A3 Annex I	0.9
Shelf Life (unopened container)	Two years

The Friction Factor is determined using standardized equipment and tests performed in accordance with API RP 5A3/ISO 13678 under laboratory conditions. In actual field use pipe size, metallurgy, thread geometry, and drilling mud contamination can effect the makeup torque. Adjustments may be required based on experience and knowledge.

RELATED PRODUCTS

- 116 Pipe Dope (Economy Grade)
- ZN20 Tool Joint Compound
- ZN40 Tool Joint Compound
- ZN50 Tool Joint Compound
- ZN60 Tool Joint Compound

