



306

OCR MODIFIED Lead-Free Thread 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

306 OCR Modified is a superior thread compound for casing, tubing, and line pipe that meets the performance requirements of API RP 5A3/ISO 13678. 306 OCR Modified was researched and field-tested long before others were on the drawing board. Having the same appearance, consistency and sealing properties of API thread compounds, 306 OCR Modified is used with excellent results during hydrostatic testing, and in downhole service. It contains corrosion and H₂S inhibitors to eliminate thread corrosion and pitting. The component materials used in the manufacture of 306 OCR Modified meet or exceed performance objectives stated for API thread compounds.

BENEFITS

- **Conforms to API RP 5A3/ISO 13678**
- **Lead-free**
- **Contains corrosion inhibitors**
- **Contains H₂S inhibitors**
- **Eliminates thread corrosion and pitting**
- **Prevents galling in thread connections during make-up**
- **Water resistant**
- **Readily brushable**

APPLICATION

306 OCR Modified is recommended for use on oilfield tubing, casing, and line pipe. 306 OCR Modified may also be used as a pipe storage compound and running compound as well as for hydrostatic testing.

TYPICAL OBSERVATIONS

Color	Copper/Black
Texture	Smooth Paste
Specific Gravity, at 77°F (25°C)	1.372 – 1.431
Corrosion Preventive Properties,	
ASTM D-1743 at 125°F (51°C)	Pass
Flash Point, ASTM D-92	>400°F (>204°C)
Temperature Range	0°F to >350°F (-17°C to >176°C)
Shelf Life (unopened container)	Two years

API RP 5A3/ISO 13678

Dropping Point, ASTM D-2265	443°F (228°C)
Evaporation, % loss 24 h at 212°F (100°C)	Pass
Gas Evolution, cm ³ 120 h at 151°F (66°C)	Pass
Oil Separation, % 24 h at 212°F (100°C)	Pass
Penetration, ASTM D-217	
worked at 77°F (25°C)	320 – 330
Mass Density, lb/gal at 77°F (25°C)	11.45 – 11.95
Water Leaching,	
% loss 2 h at 151°F (66°C)	Pass
Application & Adherence,	
2 h at 0°F (-18°C)	Pass
Compound Stability	Pass
Copper Corrosion, ASTM D-4048	1B
Salt Spray Test, ASTM B-117	500+ hours
Friction Factor, API RP 5A3 Annex I	1.0

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

- 306AG OCR Modified (Arctic Grade, Lead-free)
- 318 OCR Modified (Premium, Metal-free)
- 318AG OCR Modified (Arctic Grade, Metal-free)
- 326 OCR Modified (Premium, Metal-free, TFE-free)
- 338 OCR Modified (Metal-free)
- 4000 OCR Modified (Lead-free, zinc-free)
- 4000NM OCR Modified (Non-metallic)

