

# STEAM CHIEF™

## High Temperature Tubing & Casing Thread Sealant



### DESCRIPTION

**STEAM CHIEF™** is a metal free, patent pending, high pressure, high temperature thread compound designed to perform in the demanding geothermal and high pressure steam injection well applications. To meet the stringent demands of these applications and stay within the current environmental guidelines, two of the solids used in today's market had to be avoided. **STEAM CHIEF** contains **neither lead nor zinc**. These solid additives have environmental/health safety issues and do not provide the high temperature performance required for the severe geothermal applications **STEAM CHIEF** is designed to handle. Problems with zinc and hydrogen gas evolution at temperatures above 150°F are well known and regulated in the 20 ml maximum hydrogen released allowed in the API RP 5A3 Gas Evolution test needed with API-MODIFIED and API-SILICONE formulas.

**STEAM CHIEF** contains a high percentage of solids including pure synthetic graphite, **Jet-Lube's** new **CZ-EX® PLUS** additive for EP and anti-wear, and other nonmetallic natural, extreme pressure fillers that provide superior galling resistant properties in a corrosion inhibiting, high temperature complex base grease.

The inherent properties of this package are what allows **STEAM CHIEF** to withstand the detrimental effects of environments containing carbon dioxide, hydrogen sulfide, extreme temperatures, gas distillates and high moisture.

### APPLICATIONS

A metal free pipe thread compound particularly suited to premium and EUE tubing and casing thread designs. Suitable for extreme temperature cycling found in such applications as high temperature steam injection, "huff and puff," SAG-D oil recovery methods. Also exceptional as an anti-seize compound for nuts, bolts and other threaded connections.

### PRODUCT CHARACTERISTICS

Fluid Type	Highly refined petroleum stock
Density (lb/gal)	10.6
Penetration @ 77°F (ASTM D-217)	290 - 330
Brushability	Below -18°C (0°F)
Oil Separation, Wt. %	3.0 max.
Volume Percent Solids	30
Weight Percent Solids	50
Salt Fog (20%) 500 hrs. @ 100°F	No major pitting
Copper Strip Corrosion (ASTM D-4048)	1B max.
4-Ball (ASTM D-2596) Weld Point, kgf	800 typ.
TGA, Percent Wt. Loss	31.81
Gas Evolution, API Bul 5A3	No gas evolved, no zinc
Pressure Test EUE 8 round threads	+3000 psi
J55 Tubing Test Makeup Torque 24 hrs. @ 330°C	1750 ft./lbs. Brokeout, no galling
Ratio of Breakout to Makeup	2.34
Est. Friction Factor Relative to API-MODIFIED	0.94
Service Rating	0°F (-18°C) to 1800°F (982°C)

### PACKAGING

Part #	Container Size	Container
17515	5 gal/20L	Pail

### LIMITED WARRANTY

Jet-Lube, Inc. makes the Limited Express Warranty that at the date of delivery, this product shall be free from defects in Jet-Lube, Inc. materials and workmanship.

This Limited Express Warranty is expressly in lieu of any other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose, and of any other obligation on the part of Jet-Lube, Inc.

The sole remedy for breach of the Limited Express Warranty shall be the refund of the purchase price. All other liability is negated and disclaimed, and Jet-Lube, Inc. shall not be liable for incidental or consequential damages.



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