



PLUSCO

Product Data Sheet

PLUSCO 111 **Metal Free Thread Compound**

PLUSCO 111 Metal Free Thread Compound has been designed to replace conventional API compounds which contain over 60% metallic powders. **PLUSCO 111 Metal Free Thread Compound** is recommended for use on oilfield and water well tubing, casing, and line pipe and may be used for hydrostatic testing, storage, or as a running compound.

PLUSCO 111 Metal Free Thread Compound was developed to address some of today's stringent environmental concerns. This non-hazardous thread compound contains no metals which may create a corrosive condition thereby eliminating galvanic action commonly found in thread compounds which contain various dissimilar metals.

PLUSCO 111 Metal Free Thread Compound is not affected by hydrogen sulfide, salt, water or downhole chemicals which commonly react with metals found in conventional thread compounds. This environmentally oriented thread compound provides ease of make-up and break-out on a wide range of pipe composition, or thread configuration. It provides excellent service performance in the area of lubrication, sealing and corrosion protection during periods of storage.

PLUSCO 111 Metal Free Thread Compound meets or exceeds the requirements for a thread compound as stated in **API Bulletin 5A3, November 2009.**

API PROPERTIES

PLUSCO 111

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| 1. Adequate lubricating qualities to prevent galling in thread connections during make-up. | Passes |
| 2. No tendency to disintegrate nor undergo radical change in volume at temperatures up to 300°F. | Exceeds 350°F |
| 3. No tendency to become excessively fluid at temperatures as high as 300°F. | Passes |

(continued)

API PROPERTIES

PLUSCO 111

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| 4. Sealing properties sufficient to prevent leakage at temperatures as high as 300°F. | Passes |
| 5. Absence of any deleterious instability and any drier or hardener that will evaporate or oxidize, thereby changing the thread compound properties. | Non Present |
| 6. Resistant to water absorption. | Water Resistant |
| 7. Sufficient inert filler to prevent leakage of API round-thread casing and tubing joints under pressure as high as 10,000 psi. | Passes |
| 8. Readily applicable by brush to pipe joints in cold weather. | Passes |

Typical Specifications

Color	Black
Texture	Grainy
Penetration Worked @ 77°F	310-340
Oil Separation 24 hrs @ 150°F	1
Sp. Gravity @	1.16
Wt. Lbs./Gal	9.69
Odor	Mild Hydrocarbon
Water Leaching % Loss	3 cc
Gas Evolution 120 hrs.	10 cc
Brushability @ 0° F	Pass
Water Resistant	Yes
Corrosion Inhibited	Yes
Oxidation Stability	Very Good
Base Thickener	Calcium
Classification	Environmentally Safe Non Metallic
Flash Point	345°F
NLGI Grade	1
Test Performance	Meets API 5A3 Spec's
Torque Factor	Avg. .95

Two of the most commonly used materials in conjunction with OCTG are API Modified Thread Compound and Kendex Storage Compound. API Modified is used primarily for sealing tubing and casing threads and in a very limited capacity for pipe storage. Kendex is use for storage protection only and cannot be used down hole. An alternative which should be considered is the "Environmentally Safe" products, **PLUSCO 111** API performance requirements for a "running" or down hole compound.

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