



VULTREX DRILLING COMPOUNDS

Introduction

Petro-Canada VULTREX Drilling Compounds are specially formulated aluminum complex greases. VULTREX API Modified Thread Compound protects the threads on casing, tubing connections and line pipe against galling and provides a positive seal against the entry of drilling fluids. It conforms to API RP-5A3-96.

VULTREX Tool Joint Compound protects the threads on rotary shouldered connections and line piping against galling and provides a positive seal against drilling mud pressure. It conforms to API RP7A1-92.

Features and Benefits

- **Superior high pressure sealing against ingress of drilling fluids and mud**
 - Extended component life
 - Meets API performance requirements
 - Reduced product contamination
- **Excellent thread protection during make-up and disassembly**
 - Reduced component damage from galling and seizure
 - High anti-weld protection
 - Reduced torque requirements in breaking joints
- **Excellent resistance to rust and corrosion**
 - Extended thread life in storage and in service
 - Reduced maintenance costs

- **Superior adhesion to wet/oily steel**
 - High resistance to water washout
 - Protects threads in storage and in service
 - Increased connection life
- **Good low temperature handling properties**
 - Ease of application in cold weather
 - Suitable for wide operating temperature range

Applications

Petro-Canada VULTREX Drilling Compounds are suitable for thread protection and connection sealing in all phases of drilling under severe temperature and pressure conditions.

VULTREX API Modified Thread Compound is recommended for use on the threads of round casings, buttress casings, tubing connections and line piping. It is not recommended for use on rotary shouldered connections.

VULTREX Tool Joint Compound is recommended for use on the threads and shoulders of rotary shouldered tool joints. It is also suitable for use on the threaded connections of most drilling string applications.

Typical Performance Data

PROPERTY	TEST METHOD	VULTREX API MODIFIED THREAD COMPOUND	VULTREX TOOL JOINT COMPOUND
Dropping Point, °C / °F	D2265	138 / 280	196 / 385
Worked Penetration @ 25°C	D217	325	280
Soap Type		Aluminum Complex	Aluminum Complex
Thickener %	By Calculation	8.0	8.0
Filler %	D128	64	51
Water Leaching, 166°C (331°F), 2h, 1%	API 5A3	3.1	3.1
Brushing Ability @ -18°C (-1°F)	API 5A3	Pass	Pass
Pour Point, °C / °F	D5950	-15 / 5	-15 / 5
Flash Point, °C / °F	D92	250 / 482	250 / 482
Base Oil Viscosity, cSt @ 40°C cSt @ 100°C SUS @ 100°F SUS @ 210°F	D445	103.3 11.50 539.1 65.4	103.3 11.50 539.1 65.4
Base Oil Viscosity Index	D2270	98	98

The values quoted above are typical of normal production. They do not constitute a specification.

Health and Safety

VULTREX API Modified thread compound is controlled under WHMIS with a classification of D-2A and D-2B. VULTREX Tool Joint Compound is not controlled under WHMIS. Please consult the Material Safety Data Sheets (MSDS) for Health and Safety information regarding Petro-Canada's Drilling Compounds. To obtain Material Safety Data Sheets, contact one of Petro-Canada's TechData Info Lines.



TechData Info Lines

To place an order, please call a Customer Order Management Representative at :

Canada (English) Phone 1-800-268-5850
(French) Phone 1-800-576-1686
United States Phone 1-877-730-2369
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