

# API MODIFIED ARCTIC



## TECHNICAL DATA SHEET

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### DESCRIPTION

**JET-LUBE API-MODIFIED ARCTIC GRADE** is a high pressure thread sealing compound which is formulated according to the guidelines of API BUL 5A3. It also contains rust and oxidation inhibitors blended into Jet-Lube's unique grease, compounded from custom-refined low-sulphur oil to ensure brushability over a wide temperature range, tenacious adherence to thread surfaces, resistance to water washout, and prevention of rust and corrosion. **API-MODIFIED ARCTIC GRADE** is conductive, which reduces the possibility of electrolytic corrosion by preventing the formation of galvanic cells in the presence of salt water and other corrosive fluids.

**API-MODIFIED ARCTIC GRADE** will seal and withstand pressures to 69,000 kPa (10,000 psi) and will not harden or dry. Its lubricating characteristics reduce friction in the makeup of casing and tubing, preventing galling and wear. Maximum thread engagement is ensured, providing optimum leak resistance.

### APPLICATIONS

Jet-Lube **API-MODIFIED ARCTIC GRADE** is specifically formulated for use on casing, tubing, line pipe, flow lines, subsurface production tools, tank batteries, etc. It will lubricate, seal and protect threaded connections of oilfield tubular goods on makeup, in service and in storage.

**NOT RECOMMENDED FOR  
ROTARY SHOULDERS CONNECTIONS**

#### OPERATING RANGE

-55°C to 205°C (-65°F to 400°F)

Pressures from 69,000 kPa (10,000 psi)

### CHARACTERISTICS

- Manufactured to API BUL 5A3 requirements
- Additives for rust and corrosion protection
- Excellent lubrication qualities to prevent galling and wear
- Sticks to wet or oily threads
- Brushable over a wide temperature range
- Leak prevention to 60,000 kPa (10,000 psi)

### PRODUCT SPECIFICATIONS

Grease Base	36.0% ± 1.0%
Powdered Graphite	18.0% ± 1.0%
Lead Powder	30.5% ± 0.6%
Zinc Dust	12.2% ± 0.6%
Copper Flake	3.3% ± 0.3%
Thickener	Calcium 12-Hydroxystearate
Fluid Type	MVI Naphthenic Oil
Specific Gravity, Typical	1.70
Density (kg/liter), Typical	1.70
Dropping Point (ASTM D-566)	141°C (285°F)
Base Oil Pour Point (ASTM D-97)	-54°C (-65°F)
Base Oil Viscosity (ASTM D-445), cSt @ 40°C	20 - 24
Oil Separation, Wt. % Loss @ 100°C	<6%
Flash Point (ASTM D-92)	>160°C (320°F)
Autoignition Point (Calculated)	>260°C (500°F)
NLGI Grade	1
Penetration @ 25°C (ASTM D-217) mm x 10 <sup>-1</sup>	310 - 330
Copper Strip Corrosion (ASTM D-4048)	1A

### PACKAGING

Inventory Code	Container Size	Container
22109A	10 Lb	Pail
22110	25 Lb	Pail
22125A	50 LB	Pail



### LIMITED WARRANTY

Jet-Lube of Canada makes the Limited Express Warranty that at the date of delivery, this product shall be free from defects in Jet-Lube of Canada Ltd. 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 of Canada Ltd.

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 of Canada Ltd. shall not be liable for incidental or consequential damages.