

A-77
50-348/364-CIVP
2/20/92

APCo Exhibit 77

DOCKETED
USNRC

'92 MAR 13 P4:54

OFFICE OF SECRETARY
DOCKETING & SERVICE
BRANCH

RECEIVED BY TELECOPY

1/13/92

BECHTEL JOB 7597

GREASES

CHEVRON SRI GREASE

NLGI Grade 2

High temperature ball and roller bearing grease made with paraffinic base oil and a polyurea, ashless organic thickener. Contains a high performance rust preventive package as well as an oxidation inhibitor.

Recommended for "factory pack" anti-friction bearings of all types including electric motors, generators, alternators, starters, magnetos, and driers. Used as factory fill by many equipment manufacturers. For use under moist conditions, particularly where salt water may enter bearings.

* LONG HIGH-TEMPERATURE BEARING LIFE • EXCELLENT WATER RESISTANCE • WIDE OPERATING TEMPERATURE RANGE FROM -20°F TO 350°F (-29°C TO 177°C) • GIVES SUPERIOR RUST PROTECTION • COMPATIBLE WITH MOST SOAP-THICKENED GREASES

NLGI Grade	2
CPS #	254502
Penetration @ 77°F (25°C)	
Unworked	196
Worked	265
Dropping Point	
°F	470
°C	243
Oil Viscosity, cSt	
At 40°C	110
At 100°C	11.5
Oil Viscosity, SUS	
At 40°C	510
At 100°C	64.5

GREASES

CHEVRON TOOL JOINT AND COLLAR COMPOUND

Chevron Tool Joint and Collar Compound is specifically designed as a thread lubricant for both tool joints specially developed to and drill collars for deep-hole drilling. The product meets the requirements of major manufacturers for drill collar and tool joint lubricants and the American Petroleum Institute recommendations for thread compounds for rotary shouldered connections as specified in Appendix F of the Twenty-Eighth Edition of API Specification 7, effective March 1973.

Recommended for protection of threads and rotary shouldered connections of drill pipe and drill collars (in service and storage), Chevron Tool Joint and Collar Compound can withstand the high temperatures of deep-hole drilling and provides tenacious protection of exposed joints against the elements.

Chevron Tool Joint and Collar Compound contains 50% zinc dust in a lithium soap grease. The high zinc content provides excellent corrosion and oxidation resistance due to the exceptionally slow oxidation rate of the zinc. It has good brushability to 0°F (-18°C) and high temperature resistance, making it suitable for both shallow and deep-hole drilling operations and other applications where a lubricant of this type is required.

MEETS REQUIREMENTS OF API AND MAJOR MANUFACTURERS:
• INSURES CONTINUED COATING OF THREADS FOR EASIER WORK AND MAXIMUM CORROSION PROTECTION • RESISTS THREAD GALLING • BLOCKS FLUID LEAKAGE THROUGH THREADS • PREVENTS EXTRA MAKE-UP • HIGHLY RESISTANT TO WASHOFF BY WATER OR DRILLING MUD

Typical Properties

CPS#	234999
Dropping Point, ASTM D 566: °C (°F)	172 (341.6)
Penetration, ASTM D 217, 25°C	
Unworked	308
Worked	315
Color, visual	gray
Brushing Ability Test	
in API Bulletin 5A2, Fifth Edition, Bulletin on Thread Compounds	Applicable at -18°C

9204080301 920220
PDR ADOCK 05000343
G PDR

NUCLEAR REGULATORY COMMISSION

Case No. 50-348/364-CivP Official Exh. No. 77
 The matter of Alabama Power Company
 IDENTIFIED 3:40 p.m. 2/20/92
 RECEIVED 3:41 p.m. 2/20/92
 REJECTED _____
 DATE 2/20/92
 Witness _____
 Reporter L. Estep