

ConocoPhillips 1 HD Calcium Grease NLGI No. 1

Category : Fluid , Lubricant , Calcium Gellant , Organic Soap Gellant

Material Notes:

Description: Conoco HD Calcium Grease is a formulated product, ideally suited for equipment exposed to corrosive fluids, saltwater or extremely high temperatures. HD Calcium Grease is used exclusively by NASA in the space shuttle program due to its resistance to saltwater corrosion. Natural tackiness, water washout resistance and load-carrying ability make HD Calcium Grease useful in large, low-speed, heavily loaded industrial antifriction bearings and slow-speed open gearing. HD Calcium Grease's calcium-sulfonate thickener is a gel or "nonsoap" grease type. This provides a grease which is resistant to oil bleeding, handles high temperatures (up to 500°F (260°C), 350°F (177°C) continuous), is shear stable and is nearly impervious to water washout. Rust and corrosion protection is good, particularly over long periods since water, air and other corrosive material cannot penetrate the gel structure of the grease as easily as with soap-thickened greases. Information provided by ConocoPhillips.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ConocoPhillips-1-HD-Calcium-Grease-NLGI-No-1.php

Physical Properties	Metric	English	Comments
Viscosity Measurement	95	95	Viscosity Index (Base Oil Property)
Saybolt Viscosity at 100°F	2177 SUS	2177 SUS	Base Oil Property
Saybolt Viscosity at 210°F	149 SUS	149 SUS	Base Oil Property
Kinematic Viscosity at 40°C (104°F)	470 cSt	470 cSt	Base Oil
Kinematic Viscosity at 100°C (212°F)	31.5 cSt	31.5 cSt	Base Oil

Mechanical Properties	Metric	English	Comments
Four Ball Extreme Pressure, Load Wear Index	46	46	
Four Ball Extreme Pressure, Weld Load	500 kg	1100 lb (mass)	
Four Ball Wear	0.460 mm	0.0181 in	
Penetration P(60), 1/10 mm	325	325	
Timken Test	15900 g	35.0 lb	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	191 °C	375 °F	
Minimum Service Temperature, Air	-12.2 °C	10.0 °F	
Pour Point	-12.2 °C	10.0 °F	(Base Oil Property)

Dropping Point Thermal Properties		288 °C Metric	550 °F English	Comments
Descriptive Properties		Value		Comments
ASTM Rust Fresh and Saltwater		Pass		
Color		Tan-Brown		
Copper Corrosion		1B		
Oil Separation		0 wt. %		
Roll Stability		0.6% Change		
Thickener		Calcium Sulfonate		
Water Washout		0		

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