



PRODUCT DATA SHEET



MOLYLUBE® 5% MOLY EXTREME PRESSURE GREASE AC

Molyube 5% Moly Extreme Pressure Grease AC is an aluminum complex grease fortified with exceptional Extreme Pressure properties and 5% moly as required by many off-highway equipment manufacturers. **Molyube 5% Moly Extreme Pressure Grease AC** is formulated to be used in the centralized lubricating systems of rolling stock, haulage trucks and other applications requiring an Extreme Pressure grease with 5% moly. **Molyube 5% Moly Extreme Pressure Grease AC** is available in NLGI Grades 0, 1 and 2 with two subdivisions of the NLGI Grade 0 based on base oil viscosities of ISO VG 46 and 150.

Applications

- ◆ Mining and construction equipment – anti-friction and plain bearings, bucket pins/bushings, slew bearings for draglines, shovels, hydraulic excavators, rolling stock and haulage equipment
- ◆ Any application that requires an Extreme Pressure grease with 5% moly
- ◆ Where automatic lubrication systems are used for general purpose grease applications

Features and Benefits

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| ◆ Shear stable | The aluminum complex thickening system is mechanically stable. Retains its consistency in severe, heavy-duty applications. |
| ◆ 5% moly | Controls friction providing superior protection in boundary conditions. Meets or exceeds most OEM requirements for greases containing 5% moly. |
| ◆ Extreme Pressure and anti-wear properties | Maximizes component useful life helping to reduce replacement part costs and lost production time. |
| ◆ All-season | Two NLGI 0 grades for automatic dispensing in all climates, ranging from -38°C (-36°F) to 79°C (175°F). |

General Description

Molyube 5% Moly Extreme Pressure Grease AC is a heavy duty aluminum complex grease with exceptional Extreme Pressure properties and 5% moly. **Molyube 5% Moly Extreme Pressure Grease AC** is recommended for applications where the OEM requires 5% moly.

Product No. 301750, 301753, 300886, 300936

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With continual research and development, Calumet reserves the right to change the information contained herein. The Company is not responsible for misuse or misapplication of its products.

7/14/2020

MOLYLUBE[®]
5% MOLY EXTREME PRESSURE GREASE AC
TYPICAL PROPERTIES

<u>Product No.</u>	<u>301750</u>	<u>301753</u>
<u>OLD Product No.</u>	<u>69360</u>	<u>69520</u>
Bel-Ray Name Grade	46-0	150-0
NLGI Grade	0	0
Penetration, worked (60 strokes) ASTM D217, mm/10	370	370
Thickener Type	Aluminum Complex	Aluminum Complex
Viscosity (Base Fluid), ASTM D445 @ 40°C, cSt	49.9	150
@ 100°C, cSt	8.15	14.5
Dropping Point, ASTM D2265, °C (°F)	243 (469)	249 (480)
Copper Strip Corrosion, ASTM D4048 24 hrs @ 100°C, rating	1b	1b
Pumpability, Lincoln Ventmeter Vent from 1800 psi to 600 psi, °C (°F)	-38 (-36)	-18 (0)
Water Washout, ASTM D1264 @ 79°C (175°F), Loss, weight %	12.5	11.0
4-Ball EP Test, ASTM D2596 Weld Load, kg	620	800
Load Wear Index, kg	92	135
4-Ball Wear Test, ASTM D2266 @ 1200 rpm, 40 kg, 1 hr, 75°C Scar Diameter, mm	0.60	0.50
Timken EP Test, ASTM D2509 OK Load, kg (lb)	27.2 (60)	27.2 (60)
Lubricating Solids	5% MoS2	5% MoS2
Rust Protection, ASTM D1743, rating	Pass	Pass
EMCOR Rust Protection, ASTM D6138, rating	0/0	0/0
Color	Gray	Gray

MOLYLUBE®
5% MOLY EXTREME PRESSURE GREASE AC
TYPICAL PROPERTIES

<u>Product No.</u>	<u>300886</u>	<u>300936</u>
<u>Old Product No.</u>	<u>69480</u>	<u>69500</u>
NLGI Grade	1	2
Penetration, worked (60 strokes) ASTM D217, mm/10	325	280
Thickener Type	Aluminum Complex	Aluminum Complex
Viscosity (Base Fluid), ASTM D445 @ 40°C, cSt	222	222
@ 100°C, cSt	18.5	18.5
Dropping Point, ASTM D2265 °C	261	262
(°F)	(502)	(504)
Copper Strip Corrosion, ASTM D4048 24 hrs @ 100°C, rating	1b	1b
Pumpability, Lincoln Ventmeter Vent from 1800 psi to 600 psi, °C (°F)	-10 (14)	-4 (25)
Water Washout, ASTM D1264 @ 79°C (175°F), Loss, weight %	5.5	4.5
4-Ball EP Test, ASTM D2596 Weld Load, kg	800	800
Load Wear Index, kg	135	135
4-Ball Wear Test, ASTM D2266 @ 1200 rpm, 40 kg, 1 hr, 75°C Scar Diameter, mm	0.46	0.55
Timken EP Test, ASTM D2509 OK Load, kg (lb)	27.2 (60)	27.2 (60)
Lubricating Solids	5% MoS ₂	5% MoS ₂
Rust Protection, ASTM D1743, rating	Pass	Pass
EMCOR Rust Protection, ASTM D6138, rating	0/0	0/0
Color	Gray	Gray