

633



SXCM

Synthetic, Extreme Pressure & Corrosion Resistant Grease-with Moly

Description

Chesterton® 633 Synthetic Extreme Pressure & Corrosion Resistant Grease with Moly is the one grease to use for the most demanding lubricating needs. It is a multi-purpose workhorse with outstanding extreme pressure and anti-wear capabilities, unsurpassed shear stability, temperature and corrosion resistance.

As a premium quality, water resistant grease, 633 will not be removed even in severe water washout situations. Chesterton 633 can be used in steam and direct water contact services. With a dropping point of 288°C (550°F), it will not melt and run out even at high speeds or under heavy loads as found in Mining, Metal Processing, Steel, Aluminum or Copper Manufacturing Industry.

633 SXCM is unsurpassed in its ability to extend bearing life, reduce equipment repairs and improve operational efficiency of grease lubricated equipment. It is especially advantageous where there is exposure to high humidity, corrosive vapors and shock loading or vibration as found in pulp and paper mills, mining operations, power generating plants, steel mills and metal forming operations.

Applications include the lubrication of pinch roll and press roll bearings, dryer and calendar roll bearings, corrugators and slitters, blowers and fan bearings, oven conveyors bearings, cranes and mechanical presses.

Composition

Chesterton 633 is made using the highest quality, pure synthetic PAO base stock. These fluids are specifically polymerized to exacting standards resulting in a specific molecular weight base fluid with exceptional stability. Further, a proprietary, patent protected, sulfonate complex thickener, anti-oxidant, extreme pressure (EP) and anti wear (AW) additive package gives Chesterton 633 superior washout resistance, shear stability, fatigue, anti-wear and anti-corrosion properties without the use of heavy metals such as zinc, lead, antimony, barium, and other metallic restricted compounds.

Typical Physical Properties		633 SXCM
Appearance		Bright, Silver Gray
Consistency, NLGI (DIN 51 818)		1
Penetration (ASTM D 217, DIN ISO 2137)		310-340
Texture		Smooth, Tacky
Specific Gravity, 25°C		0.95-1.05
Oil Base		PAO Synthetic
Thickener	Proprietary, Patent Protected, Sulfonate Complex	
Lubricating Additives	Non Heavy Metal, Extreme Pressure and Anti-Wear, Anti-Fretting Additives, Surface Reactive Anti-Rust and Corrosion Additives, Oxidation Inhibitors	
Lubricating Solids		Molybdenum disulfide, 5%
Service Temperature Range		-50°C (-58°F) to 250°C (482°F) above 170°C, increased re-lubrication frequency required.
Dropping Point (ASTM D 2265, DIN 51 801/1)		288°C (550°F)
Worked Stability (ASTM D 217) % Change		
10,000 strokes		-1.0
100,000 strokes		-4.5
Oil Separation, % loss (ASTM D 1742)		nil
Four Ball E.P. (ASTM D 2596, DIN 51 350/4)		
Load Wear Index		140
Weld Load, Kg (N)		800 (7845)
4 Ball Wear (ASTM D 2266, DIN 51 350/5), Scar, mm		0.38
40kg, 1200rpm, 75°C, 1 hr.		
Timken Load (ASTM D 2509)		29.5 kg (65 lbs.)
Bearing Life Performance (ASTM D 3527), 150°C, hours		200
Bomb Oxidation (ASTM D 942), psi drop, 100 hours		3.0
Base Oil Viscosity, (ASTM D 445, DIN 51 561)		
40°C		35 cSt
100°C		6.5 cSt
Viscosity Index, VI		141
Water Washout (ASTM D 1264)		
79°C (175°F)		<2.0
Corrosion Resistance (ASTM B 117), 5% NaCl		>1000 hrs @ 50 micron film thickness
Copper Corrosion (ASTM D 4048, DIN 51 811)		0/1B
ISO/DIN Classification		ISO-L-XE E I B1/DIN 51 502-K FLP 1HC P1-50

Fortification with microscopic dispersion particles of MoS₂ provides benefits to Chesterton 633 SXCM Grease on several accounts:

- Enhances Lubricity - Low coefficient of friction translates to better lubricity, less machine wear.

- Increases load carrying capacity - Micron sized particles help protect machinery under extreme pressure.

- MoS₂ provides temporary lubrication in the event of grease burn off.

Chesterton's unique QBT™, Quiet Bearing Technology™ smooths surface asperities and reduces bearing "noise" as measured by mechanical or acoustical signature. Unique, synergistic blend of polar and non polar additives form a protective platelet-like barrier, sealing the bearing surfaces and smoothing surface asperities.

Chesterton® 633 virtually eliminates one of the major causes of bearing failure...Corrosion. 633 SXCM offers unique corrosion protection, more than 10 times longer protection against rust than conventional food greases when measured by ASTM test methods. Moisture activated corrosion inhibitors form an impervious passivating barrier.

Applications

- Slides, guides, plain bearings and bushings.
- Anti-friction bearings, roller bearings and ball bearings.
- Kiln Ring, Shoe and Rollers
- Couplings, joints and splined shafts
- Mining Equipment, Off Road
- Cranes, Drag Lines,
- Railways, Switch Gear and Curve Lubrication

Features

- Virtually impervious to water and steam
- Synthetic Base Fluid
- Compatible with most elastomers and seals
- Smooth, Tacky Texture
- Adheres to Metal
- Outstanding Extreme Pressure Resistance
- Water and Corrosion Resistant
- Wide temperature range

Suggested Uses

Use in all applications where conventional greases break down under shear, thermal abuse, shock loading and water contamination. Chesterton 633 SXCM can be used whenever thermally stable grease is required.

Directions

Chesterton 633 SXCM can be applied by injection with a grease gun, centralized system or by hand packing. 633 SXCM is readily compatible with most grease types; consult Chesterton for grease compatibility chart.

Safety

Keep out of reach of children. Before using product, review the Material Safety Data Sheet (MSDS) or the appropriate safety sheet for your area.

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