

635



SXC

Synthetic, Extreme Pressure & Corrosion Resistant Grease

Description

Chesterton® 635 Synthetic Extreme Pressure & Corrosion Resistant Grease 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.

Superior resistance to washout by water, caustics, and acids, sanitizing cleaners, process fluids and steam has now been combined with high temperature performance to produce Chesterton 635 Synthetic Extreme Pressure & Corrosion Resistant Grease.

As a premium quality, water resistant grease, 635 will not be removed even in severe water washout situations. Chesterton 635 can be used in steam and direct water contact services. Up to 50% water contamination will not diminish properties of Chesterton 635. With a dropping point of 318°C (604°F), it will not melt and run out even at high speeds or under heavy loads.

635 SXC is unsurpassed in its ability to extend bearing life, reduce equipment repairs and improve operational efficiency of grease lubricated equipment. Uses for 635 SXC can be found throughout any industrial plant or process. 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 635 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.

Typical Physical Properties		635 SXC
Appearance		Light Blue/Green
Consistency, NLGI (DIN 51 818)		2
Penetration (ASTM D 217, DIN ISO 2137)		265-295
Texture		Smooth, Buttery
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	
Service Temperature Range		-40°C (-40°F) to 240°C (464°F) above 180°C, increased re-lubrication frequency required
Dropping Point (ASTM D 2265, DIN 51 801/1)		318°C (604°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		130
Weld Load, Kg (N)		800 (7845)
4 Ball Wear (ASTM D 2266, DIN 51 350/5), Scar, mm		0.40
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		240
Bomb Oxidation (ASTM D 942), psi drop, 1000 hours		6.0
Base Oil Viscosity, (ASTM D 445, DIN 51 561)		
40°C		98 cSt
100°C		14 cSt
Viscosity Index, VI		146
Water Washout (ASTM D 1264)		
79°C (175°F)		<0.05
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-XD F I B2/DIN 51 502-K LP 2HC R1-40	

Further, a proprietary, patent protected, sulfonate complex thickener, anti-oxidant, extreme pressure (EP) and anti wear (AW) additive package gives Chesterton 635 superior washout resistance, shear stability, fatigue, anti-wear and anti-corrosion properties. Extreme pressure and anti wear additives use the latest technology without the use of heavy

metals such as zinc, lead, antimony, barium and other restricted metallic compounds.

Chesterton's unique QBT™, Quiet Bearing Technology™ smoothes 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.

Further, Chesterton® 635 virtually eliminates one of the major causes of bearing failure...Corrosion. 635 SXC 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.

Chesterton 635 SXC is chemically stable and is non-reactive with all metals, rubber and plastics.

Applications

- Lubrication of slides, guides, plain bearings and bushings
- Anti-friction bearings, roller bearings and ball bearings
- Grease-lubricated chains
- Gears, cams, ball screw actuators
- Motor Operated Valves, Limit Switch and Stem Nut
- Couplings, joints and splined shafts
- Machine tool spindles

Features

- Virtually impervious to water and steam
- Synthetic Base Fluid
- Compatible with most elastomers and seals
- Smooth, Buttery Texture
- Adheres to Metal
- Water and Corrosion Resistant
- Wide application temperature range
- Speed Rating, DN to 500,000

Suggested Uses

Use in all applications where conventional greases break down under shear, thermal abuse, shock loading and water contamination.

Chesterton 635 SXC can be used wherever thermally stable grease is required.

Directions

Chesterton 635 SXC can be applied by injection with a grease gun, centralized system or by hand packing. 635 SXC is readily compatible with most grease thickeners; 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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