

615

HTG #1

TECHNICAL
CHESTERTON®
PRODUCTS

Description

Chesterton® 615 HTG #1 is the versatile performer needed in all applications requiring a heavy duty NLGI #1 grease.

The outstanding extreme pressure characteristics of this grease, coupled with its excellent water wash out resistance make it a truly superior choice for tough applications. The corrosion protection provided to surfaces lubricated with 615 is far greater than virtually all competitive greases.

Unlike many NLGI #1 greases, 615 will not bleed or age harden. It can be pumped through grease dispensing systems with ease permitting labor savings through automation.

It is important when choosing a lubricant to select the lightest lubricant that will effectively reduce friction and wear between moving parts. An NLGI #1 grease becomes especially important at higher bearing speeds and/or in equipment subject to very low temperatures. This is because at very high speeds, a heavier grease will generate more drag or friction on the moving part than is desirable. At very low temperatures, a #2 grease will tend to be extremely stiff and again, will start to cause more friction and heat build up than a #1 grease. Under both of these conditions Chesterton 615 HTG #1 provides distinct and valuable benefits over currently available products.

Composition

Chesterton 615 HTG #1 utilizes inventive polymer technology to thicken a refined petroleum base stock and provide unsurpassed shear stability with a very high dropping point.

The additive package in 615 ensures that even when the product is contaminated with up to 50% water, the excellent extreme pressure properties and the corrosion protection provided by the grease remain intact.

Typical Physical Properties

Appearance	Blue-Green
Consistency, NLGI (DIN 51 818)	1
Texture	Buttery with slight tack
Specific Gravity@ 25°C (77°F)	.97
Temperature Range	-45°C(-50°F) to 204°C(400°F) above 170°C, increased re-lubrication frequency required.
Dropping Point (ASTM D2265, DIN 51 801/1)	300°C (572°F)
Penetration (ASTM D 217, DIN ISO 2137)	310-340
Timken OK Load (ASTM D2509)	27 kg (60 lbs)
Four Ball Wear Test (ASTM D2266, DIN 51 350/5) Scar Diameter	0.4 mm
Four Ball Weld Test (ASTM D2596, DIN 51 350/4) Weld Load Wear Index	620 kg (1364 lbs) 70
Shear Stability (ASTM D217) % change	
10,000 strokes	+1.4%
100,000 strokes	+2.8%
Oil Separation (ASTM D 1742), % loss	0.2%
Bearing Life Performance (ASTM D 3527), hours	120
Water Washout Resistance (ASTM D1264) @ 79°C (175°F)	<1.0%
Corrosion Resistance (ASTM B 117), 5% NaCl	>1000 hrs @ 50 microns film thickness

Use 615 HTG #1 anywhere the demands of high speed equipment or low operating temperatures in heavy industry require a superior grease with softer consistency.*

Applications

615 HTG #1 should be used to lubricate parts and equipment in any industrial area subject to extreme pressure and severe conditions where a softer consistency grease is called for. It is especially effective when operating speeds are high or in cases where temperatures routinely fall below 0°C (32°F). Uses can be found in the following industries:

Metal working: On machine tools, mechanical presses, milling heads, reduction gears, exposed gears, cams, toggle joints, links and other components.

Pulp and Paper: On calender bearings, high speed spindle gears, and most devices under load in humid or wet

conditions where the grease's excellent water washout resistance and corrosion protection will protect lubricated parts.

Steel: On continuous casters, couplings, oscillators, torch pin rolls, automatic torches, shears, blowers and other uses where the grease's high temperature performance will reduce relubrication frequency.

Mining: On conveyers, grinding mills, crushers, hoists and bearings.

Features

- Easily pumpable in automatic grease dispensing systems
- Will not bleed or age harden
- Exceptional shear and roll stability
- Excellent protection against corrosion in high moisture environments
- Superior choice for extremes of temperature and pressure
- NSF H2 - Registration number 133941
- ISO L-XCDB1
- DIN 51 502-KPF 2P-30

* Use Chesterton 615 High Temperature Grease for lubrication requirements necessitating an NLGI #2 grease.

Directions

Apply with a grease gun or through automatic dispensing equipment. Wipe grease fittings to remove contamination before using pressure guns. Do not overfill bearings; use only sufficient volume of grease to fill voids. Reapply at regular intervals.

Safety

Before using this product, please review the Material Safety Data Sheet (MSDS) or the appropriate safety sheet in your area.

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