

# INDUSTRIAL LUBRICANTS

PRODUCTS AND PROGRAMS



# Capabilities

CHESTERTON's lubrication program provides you the expertise and support for your entire production process and maintenance operations. Our team of experts develop lubricants optimized for your specific industrial applications.

- Power generation
- Pulp and paper
- Water and wastewater
- Chemical processing
- Refineries
- Food, beverage, and pharmaceutical
- Wood processing
- Steel, aluminum, and metal processing
- Mining
- Textile

Chesterton lubrication programs will:

- Extend equipment life
- Improve reliability
- Increase productivity
- Reduce costs
- Increase profitability



# Lubrication Technology

## Extending Chain Life



Chain “stretch” is a result of wear on the pin and bushing, requiring costly chain adjustments or replacement. Conventional lubricants do not penetrate tight tolerances and, therefore, provide minimum benefit. Chesterton’s chain lubricants are formulated

to penetrate pin and bushings, providing critical lubrication.

Chesterton offers a broad range of lubricants specifically designed for chains.

- Doubles chain life
- Reduces energy consumption
- Reduces lubricant consumption
- Increases load carrying capability
- Acceptable in food, pharmaceutical and beverage industries

## Primary Chain Lubricants

### 601 Chain Drive Pin & Bushing Lubricant

Uniquely formulated, premium, low viscosity oil that penetrates to the pin and bushing to provide critical lubrication and wear resistance

-23°C to 150°C (-10°F to 300°F)

### 610 Synthetic Lubricating Fluid—ISO VG 68

### 610MT Plus Synthetic Lubricating Fluid—ISO VG 220

### 610 HT Synthetic Lubricating—ISO VG 460

Full-synthetic technology for optimum high temperature and oven chain lubrication with low evaporation and minimum residue

Up to 270°C (520°F)

### 690 FG Lubricant

A clear, non-staining formula for use in food processing, beverage, and pharmaceutical plants; NSF registered for direct food contact

-9°C to 120°C (15°F to 250°F)

### 636 FG SLF-220 Synthetic Lubricating Fluid

636 FG is an ISO-grade 220, high performance, synthetic lubricant. It is NSF H1 registered, and specifically designed for high temperature bearing, and chain lubrication throughout the food, beverage, and pharmaceutical industries.

-25°C to 260°C (-13°F to 500°F)

### 660 Silicone Lubricant

A clear, silicone fluid that provides a continuous film lubrication for mechanical parts and sliding surfaces constructed of plastic, rubber, or metal; will not stain or leave gummy residues

-40°C to 205°C (-40°F to 400°F)

## Special Condition Chain Lubricants

### 715 Spraflex® and 715 Spraflex® Gold

Seals surface protecting against wet/high wear conditions

### 787 Sliding Paste

Up to 538°C (1000°F)

### 785 Parting Lubricant

Up to 1204°C (2200°F)

### 725 Nickel Anti-Seize Compound

Up to 1425°C (2600°F)



# Lubrication Technology

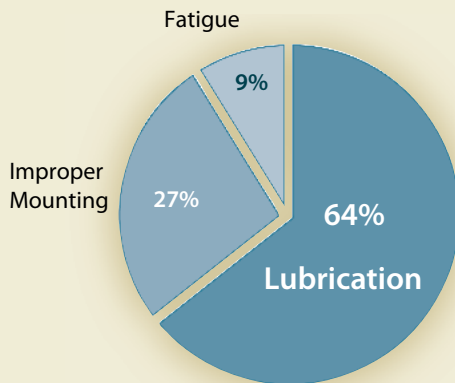
## Improving Bearing Performance



Chesterton's bearing lubrication solutions address the primary causes of bearing failure, offering you the ability to significantly improve operational reliability and lower your maintenance and production costs.

- Excellent corrosion protection
- High load carrying ability
- Best-in-class water and chemical washout resistance
- QBT™ Quiet Bearing Technology
- Automatic grease dispensing
- Reduced lubricant consumption

### Primary Causes of Bearing Failure



Sixty-four percent of bearing failures are lubrication related. Less than 9% of bearings reach their design life expectancy—L10.

Source: ABMA (American Bearing Manufacturers Association)

## Automatic Single Point Lubricators

Automatically dispense Chesterton grease to critical areas, eliminating over and under greasing.

### Lubri-Cup™ EM

- Microprocessor controlled, “pulse” delivery system
- Operates up to 12 months
- Replaceable service packs
- Lubricates up to 8 bearings up to 6 m (19 feet) away
- Sealed microprocessor
- -15°C to 60°C (5°F to 140°F)

Lithium ion battery for temperatures down to -40°C (-40°F)



### Special Models

#### Lubri-Cup™ EM-X

- UL and ATEX Certified for equipment used in potentially hazardous locations

#### Lubri-Cup™ EM-S, EM-SP

- Synchronized to lubricate only when machine is operating

### Lubri-Cup™ VG – 250cc

- Microprocessor-controlled, “pulse” delivery system
- Nitrogen gas-operated unit
- Variable timer
- Disposable unit
- High performance
- Easy to set up and operate



### Lubri-Cup™ VG Mini – 120cc

### Lubri-Cup™ S

- Low feed pressure prevents bearing seal failure
- Increases time interval for re-greasing by six times
- Reduces labor cost for re-greasing by over 80%
- Transparent reservoir—easy-to-see grease level
- Simple to refill in place



## Advanced Grease Technology Selection Guide

Chesterton's industrial greases offer extended bearing life and reliability even under the harshest conditions of load, temperature, water and corrosion.

INDUSTRIAL GRADE								
Name	Thickener	Base Oil	NLGI Grade	Dropping Point ASTM D2265	Service Temp	Four Ball Wear Weld Load, ASTM D2 596	Water Washout Resistance ASTM D 1264, @79°C (175°F)—% loss	Corrosion Resistance ASTM B 117
615 HTG #1	Sulfonate Complex	Mineral	1	288°C (550°F)	-45 to 204°C (-50 to 400°F)	620 Kg	<1.0	>1000 hours @50 microns
615 HTG #2	Sulfonate Complex	Mineral	2	318°C (604°F)	-40 to 204°C (-40 to 400°F)	620 Kg	< 0.05	>1000 hours @50 microns
615 HTG #2 460	Sulfonate Complex	Mineral	2	>300°C (572°F)	-40 to 204°C (-40 to 400°F)	620 Kg	< 0.05	>1000 hours @50 microns
633 SXCM	Sulfonate Complex	Synthetic—PAO	1	288°C (550°F)	-50 to 250°C (-58 to 482°F)	800 Kg	< 2.0	>1000 hours @50 microns
635 SXC	Sulfonate Complex	Synthetic—PAO	2	318°C (604°F)	-40 to 240°C (-40 to 464°F)	800 Kg	< 0.05	>1000 hours @50 microns
613 Moly Grease	Lithium	Mineral	2	199°C (390°F)	-18 to 138°C (0° to 280°F)	400 Kg	6.2	50 hours @50 microns

FOOD, PHARMACEUTICAL, BEVERAGE GRADE								
Name	Thickener	Base Oil	NLGI Grade	Dropping Point ASTM D2265	Service Temp	Four Ball Wear Weld Load, ASTM D 2596	Water Washout Resistance ASTM D 1296, @79°C (175°F)—% loss	Corrosion Resistance ASTM B 117
630 SXCF	Sulfonate Complex	Synthetic—PAO	2	318°C (604°F)	-40 to 240°C (-40 to 464°F)	620 Kg	< 0.05	>1000 hours @50 microns
625 CXF	Sulfonate Complex	Mineral	2	318°C (604°F)	-30 to 204°C (-22 to 400°F)	620 Kg	< 0.05	>1000 hours @50 microns
629 HTWG	Synthetic Polymer	Mineral—PAO Blend	2	260°C (500°F)	-34 to 204°C (-29 to 400°F)	160 Kg	< 0.2	50 hours @50 microns
622 White Grease	Aluminum Complex	Mineral	2	245°C (473°F)	-23 to 170°C (-10 to 338°F)	250 Kg	2.45	500 hours @50 microns

### Mounting/Assembly

#### 787 Sliding Paste

Ease mounting of press fit assemblies, minimizing galling, scoring, and misalignment



### Bearing Protection

#### 33K Split Bearing Protection Seal

Eliminate the need and cost for equipment disassembly while improving seal performance of conventional lip seals



# Lubrication Technology

## Maximizing Wire Rope and Cable Performance



*Chesterton's unique 2-shot treatment for close metal to metal tolerances provides long lasting, nondrying lubrication, allowing wire rope and cable to run smoothly with less wear and reduced energy costs.*

- Increase the life of wire rope and cables
- Reduce stretch and strand breakage
- Eliminate lubricant squeeze out and wipe off

### 601 Chain Drive Pin & Bushing Lubricant

Penetrates to the core for critical internal lubrication

### 715 Spraflex® or 715 Spraflex® Gold

Seals surface protecting against wet/high wear conditions

## Protecting Open Gears



*Chesterton's open gear lubrication solutions provide excellent wear resistance and load carrying capability.*

- Best-in-class water and chemical washout resistance
- No lubricant squeeze out
- Reduced lubricant consumption

### 715 Spraflex®

Black, cohesive, high film strength

### 715 Spraflex® Gold

Synthetic, clear, bonds to wet metal, corrosive resistant

## Trouble-Free Threaded Assemblies



*Chesterton's threaded assembly lubrication solutions keep bolts from seizing, allowing proper assembly and easing disassembly.*

- Microscopic solid lubricants—do not wipe off
- Solid lubricants withstand extreme pressure—prevents galling
- Balanced coefficient of friction—supports proper bolt tension

### 725 Nickel Anti-Seize Compound

Chemical resistant, hard nickel particles lubricate under most extreme industrial conditions  
Up to 1425°C (2600°F)

### 783 ACR

Exceptional corrosion protection, water wash-out resistance  
Up to 900°C (1650°F)

### 785 Parting Lubricant

Proprietary solid lubricants, no heavy metals  
Up to 1204°C (2200°F)

## Special Condition Bolt Lubricants

### 710 Anti-Seize Compound

Copper based  
1100°C (2000°F)

### 785FG Parting Lubricant

H1, white for incidental food contact  
1204°C (2200°F)

### 772 Premium Nickel Anti-Seize

For nuclear applications



## Optimizing Pneumatic Reliability

*Chesterton's pneumatic lubrication solutions dramatically improve the reliability of your pneumatic equipment and can reduce maintenance costs by as much as 80%.*

- Advanced petroleum based technology
- Absorbs condensed water
- Lower friction—faster cycle time, reduced heat, and lower air cost
- Prevents clogged solenoids and sticking air tools
- Removes rust, sticky residues, and dirt
- Reduces lubricant consumption

### 652 Pneumatic Lubricant & Conditioner

Direct replacement for existing pneumatic oils, compatible with all oil-based systems, ashless, contains no heavy metals



## Minimizing Friction and Wear in Extreme Pressure Applications

*Chesterton's lubrication solutions for extreme pressure applications will not liquefy under extremely high loads and temperatures.*

- Microscopic solid lubricants—do not wipe off
- Low coefficient of friction
- Prevent wear, galling, and seizure

### 787 Sliding Paste

Microscopic graphite and molybdenum disulfide solid particles lubricate under most extreme industrial conditions of pressure and temperature

23°C to 538°C (-10°F to 1000°F)

## Stabilizing Control Valves



*Chesterton's control valve lubrication solutions ensure reliable valve actuation.*

- Long-term stability
- Excellent corrosion protection
- Best-in-class water washout resistance
- Unsurpassed anti-wear and extreme pressure resistance

### 615 HTG

Outstanding extreme pressure capabilities, oxidation inhibited for motor-operated valves

### 652 Pneumatic Lubricant & Conditioner

Provides critical liquid lubrication for air operated valves

### 787 Sliding Paste

Lubricates under extreme industrial conditions of pressure and temperature

### 625 CXF

Food grade, mineral oil, extreme pressure, and corrosion resistant grease

### 630 SXCF

Food grade, synthetic, extreme pressure, and corrosion resistant grease

### 635 SXC

Synthetic, extreme pressure, and corrosion resistant grease



## Global Solutions, Local Service

Since its founding in 1884, the A.W. Chesterton Company has successfully met the critical needs of its diverse customer base. Today, as always, customers count on Chesterton solutions to increase equipment reliability, optimize energy consumption, and provide local technical support and service wherever they are in the world.

Chesterton's global capabilities include:

- Servicing plants in over 100 countries
- Global manufacturing operations
- More than 500 Service Centers and Sales Offices worldwide
- Over 1200 trained local Service Specialists and Technicians

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