

# INDUSTRIAL LUBRICANTS

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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(E) 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 – 150°C (-10°F – 300°F)

### 607(E) HTS -68 Lubricating Fluid—ISO VG 68

### 607(E) HTS -220 Lubricating Fluid—ISO VG 220

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

Up to 250°C (482°F)

### 610 Plus Synthetic Lubricating Fluid—ISO VG 68

### 610 MT 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(E) FG Lubricant

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

-9°C – 120°C (15°F – 250°F)

### 660(E) 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 – 205°C (-40°F – 400°F)

## Special Condition Chain Lubricants

### 715 Spraflex® and 715(E) Spraflex® Gold

Seals surface protecting against wet/high wear conditions

### 787 Sliding Paste

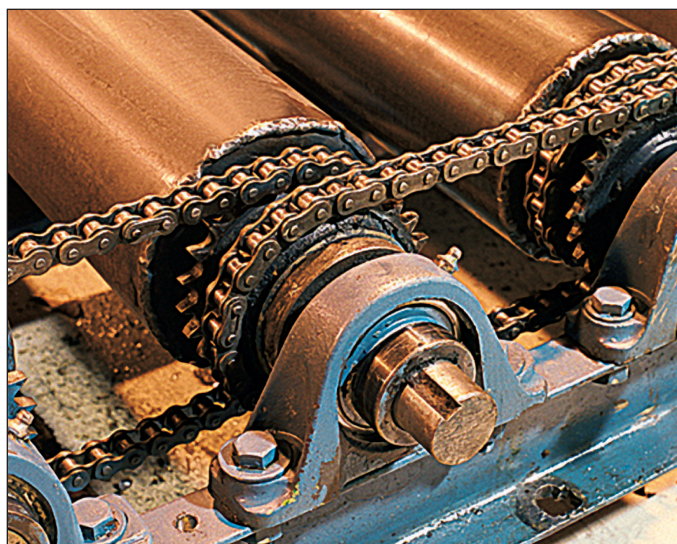
Up to 538°C (1000°F)

### 785(E) Parting Lubricant

Up to 1204°C (2200°F)

### 725(E) Nickel Anti-Seize Compound

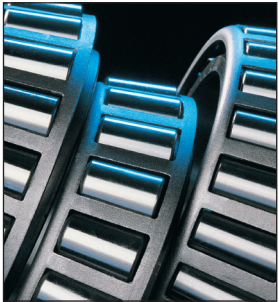
Up to 1425°C (2600°F)



(E) in product name indicates version made in Europe

# Lubrication Technology

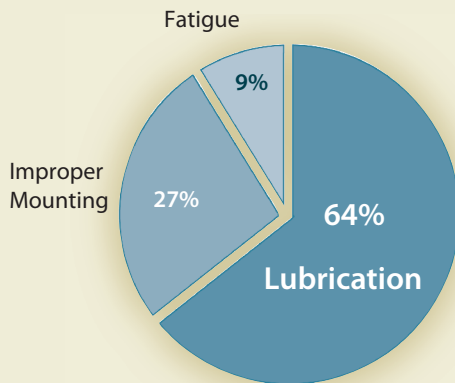
## Improving Bearing Performance



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 – 60°C (5°F – 140°F)

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



### Special Models

#### Lubri-Cup™ MSP

- Synchronized to lubricate only when machine is operating

#### Lubri-Cup™ VG Mini – 120cc

- Nitrogen gas-operated unit
- Variable timer
- Disposable unit
- High performance
- Easy to set up and operate



#### 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.

## Advanced Grease Technology Selection Guide

Industrial Grade Grease									
Name	Thickener	Base Oil	NLGI Grade	Base Oil Viscosity	Dropping Point ASTM D2265	Service Temp	Four Ball Wear Weld Load, ASTM D2596	Water Washout Resistance ASTM D1264	Corrosion Resistance ASTM B117
615 HTG #1	Calcium Sulfonate Complex	Mineral	1	100	300°C (572°F)	-45°C – 204°C (-50°F – 400°F)	620 Kg	<1.0	>1000 hours @50 microns
615 HTG #2	Calcium Sulfonate Complex	Mineral	2	100	318°C (604°F)	-40°C – 204°C (-40°F – 400°F)	620 Kg	< 0.05	>1000 hours @50 microns
615(E) HTG #2-460	Calcium Sulfonate Complex	Mineral	2	460	>300°C (572°F)	-40°C – 204°C (-40°F – 400°F)	650 Kg	< 0.05	>1000 hours @50 microns
633 SXCM	Calcium Sulfonate Complex	Synthetic (PAO)	1	32	280°C (550°F)	-50°C – 250°C (-58°F – 482°F)	800 Kg	< 2.0	>1000 hours @50 microns
635 SXC	Calcium Sulfonate Complex	Synthetic (PAO)	2	100	318°C (604°F)	-40°C – 240°C (-40°F – 464°F)	800 Kg	< 0.05	>1000 hours @50 microns

Food Grade Grease									
Name	Thickener	Base Oil	NLGI Grade	Base Oil Viscosity	Dropping Point ASTM D2265	Service Temp	Four Ball Wear Weld Load, ASTM D2596	Water Washout Resistance ASTM D1264	Corrosion Resistance ASTM B117
622 White Grease	Aluminum Complex	Mineral	2	100	245°C (473°F)	-23°C – 170°C (-10°F – 338°F)	250 Kg	2.45	500 hours @50 microns
625 CXF	Calcium Sulfonate Complex	Mineral	2	100	318°C (604°F)	-30°C – 204°C (-22°F – 400°F)	620 Kg	< 0.05	>1000 hours @50 microns
629 HTWG	Inorganic	Synthetic Mineral (PAO) Blend	2	220	260°C (500°F)	-34°C – 204°C (-29°F – 400°F)	160 Kg	< 0.2	50 hours @50 microns
630 SXCF	Calcium Sulfonate Complex	Synthetic (PAO)	2	40	318°C (604°F)	-40°C – 240°C (-40°F – 464°F)	620 Kg	< 0.05	>1000 hours @50 microns

### Mounting/Assembly

#### 787 Sliding Paste

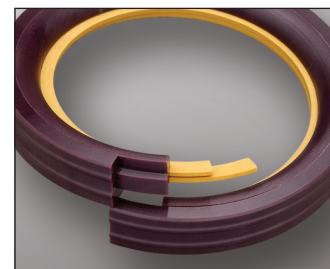
Ease mounting of press fit assemblies, minimizing galling, scoring, and misalignment



### Bearing Protection

#### 33K Split Bearing Protection Seal

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



(E) in product name indicates version made in Europe

# 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(E) Chain Drive Pin & Bushing Lubricant**

Penetrates to the core for critical internal lubrication

### **715 Spraflex® or 715(E) 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(E) 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(E) Nickel Anti-Seize Compound**

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

### **783(E) ACR**

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

### **785(E) 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

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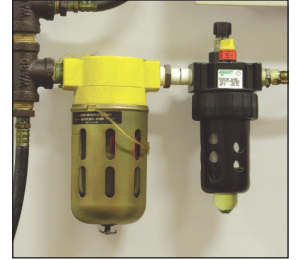
## Optimizing Pneumatic Reliability

*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(E) 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 – 538°C (-10°F – 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(E) 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

\*(E) in product name indicates version made in Europe



## GLOBAL SOLUTIONS, LOCAL SERVICE

Since its founding in 1884, 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 113 countries
- Global manufacturing operations
- More than 500 Centres and Sales Offices worldwide
- Over 1200 trained local Service Specialists and Technicians

Chesterton products and services are available through the sales offices listed below, and through our network of authorized distributors. To find a service location near you, please visit [chesterton.com](http://chesterton.com).

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Form No. EN36561  
Lubricants Brochure EMEA –  
English  
09/21