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
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 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 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)

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)
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

Improving Bearing Performance

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

- 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

Primary Causes of Bearing Failure

- Fatigue: 9%
- Improper Mounting: 27%
- Lubrication: 64%

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)
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

<table>
<thead>
<tr>
<th>Name</th>
<th>Thickener</th>
<th>Base Oil</th>
<th>NLGI Grade</th>
<th>Base Oil Viscosity</th>
<th>Dropping Point ASTM D2265</th>
<th>Service Temp</th>
<th>Four Ball Wear Weld Load, ASTM D2596</th>
<th>Water Washout Resistance ASTM D1264</th>
<th>Corrosion Resistance ASTM B117</th>
</tr>
</thead>
<tbody>
<tr>
<td>613 Moly Grease</td>
<td>Lithium 12 Hydroxystearate</td>
<td>Mineral</td>
<td>2</td>
<td>220</td>
<td>199°C (390°F)</td>
<td>-18 to 138°C (0 to 280°F)</td>
<td>400 Kg</td>
<td>&lt; 0.05</td>
<td>&gt;1000 hours @50 microns</td>
</tr>
<tr>
<td>615 HTG #1</td>
<td>Calcium Sulfonate Complex</td>
<td>Mineral</td>
<td>1</td>
<td>100</td>
<td>300°C (572°F)</td>
<td>-45 to 204°C (-50 to 400°F)</td>
<td>620 Kg</td>
<td>&lt; 0.05</td>
<td>&gt;1000 hours @50 microns</td>
</tr>
<tr>
<td>615 HTG #2</td>
<td>Calcium Sulfonate Complex</td>
<td>Mineral</td>
<td>2</td>
<td>100</td>
<td>318°C (604°F)</td>
<td>-40 to 204°C (-40 to 400°F)</td>
<td>620 Kg</td>
<td>&lt; 0.05</td>
<td>&gt;1000 hours @50 microns</td>
</tr>
<tr>
<td>615 HTG #2 460</td>
<td>Calcium Sulfonate Complex</td>
<td>Mineral</td>
<td>2</td>
<td>460</td>
<td>&gt;300°C (572°F)</td>
<td>-40 to 204°C (-40 to 400°F)</td>
<td>500 Kg</td>
<td>&lt; 0.05</td>
<td>&gt;1000 hours @50 microns</td>
</tr>
<tr>
<td>633 SXCM</td>
<td>Calcium Sulfonate Complex</td>
<td>Synthetic (PAO)</td>
<td>1</td>
<td>32</td>
<td>280°C (550°F)</td>
<td>-50 to 250°C (-58 to 482°F)</td>
<td>800 Kg</td>
<td>&lt; 2.0</td>
<td>&gt;1000 hours @50 microns</td>
</tr>
<tr>
<td>635 SXC</td>
<td>Calcium Sulfonate Complex</td>
<td>Synthetic (PAO)</td>
<td>2</td>
<td>100</td>
<td>318°C (604°F)</td>
<td>-40 to 240°C (-40 to 464°F)</td>
<td>800 Kg</td>
<td>&lt; 0.05</td>
<td>&gt;1000 hours @50 microns</td>
</tr>
</tbody>
</table>

Food Grade Grease

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

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
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

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

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

Maximizing Wire Rope and Cable Performance

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

715 Spraflex®
Black, cohesive, high film strength

715 Spraflex® Gold
Synthetic, clear, bonds to wet metal, corrosive resistant

Trouble-Free Threaded Assemblies

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

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

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

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)

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

Visit our website at
www.chesterton.com

Distributed by:

A.W. Chesterton Company
860 Salem Street
Groveland, MA 01834 USA

Telephone: 781-438-7000
Fax: 978-469-6528
www.chesterton.com