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

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>601(E)</td>
<td>Chain Drive Pin &amp; Bushing Lubricant</td>
</tr>
<tr>
<td>607(E) HTS -68</td>
<td>Lubricating Fluid — ISO VG 68</td>
</tr>
<tr>
<td>607(E) HTS -220</td>
<td>Lubricating Fluid — ISO VG 220</td>
</tr>
<tr>
<td>610 Plus</td>
<td>Synthetic Lubricating Fluid — ISO VG 68</td>
</tr>
<tr>
<td>610 MT Plus</td>
<td>Synthetic Lubricating Fluid — ISO VG 220</td>
</tr>
<tr>
<td>610 HT</td>
<td>Synthetic Lubricating Fluid — ISO VG 460</td>
</tr>
<tr>
<td>690(E) FG</td>
<td>Lubricant</td>
</tr>
<tr>
<td>660(E) Silicone</td>
<td>Lubricant</td>
</tr>
</tbody>
</table>

### Special Condition Chain Lubricants

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>715 Spraflex®</td>
<td>and 715(E) Spraflex® Gold</td>
</tr>
<tr>
<td>787 Sliding Paste</td>
<td></td>
</tr>
<tr>
<td>785(E) Parting Lubricant</td>
<td></td>
</tr>
<tr>
<td>725(E) Nickel Anti-Seize Compound</td>
<td></td>
</tr>
</tbody>
</table>

(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

- 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)

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

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.

### Industrial 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>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°C – 204°C (-50°F – 400°F)</td>
<td>620 Kg</td>
<td>&lt;1.0</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°C – 204°C (-40°F – 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°C – 204°C (-40°F – 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°C – 250°C (-58°F – 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°C – 240°C (-40°F – 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°C – 170°C (-10°F – 338°F)</td>
<td>250 Kg</td>
<td>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°C – 204°C (-22°F – 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</td>
<td>2</td>
<td>220</td>
<td>260°C (500°F)</td>
<td>-34°C – 204°C (-29°F – 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°C – 240°C (-40°F – 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

(E) in product name indicates version made in Europe
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

### Maximizing Wire Rope and Cable Performance

- **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

- **715 Spraflex®**
  Black, cohesive, high film strength

- **715(E) Spraflex® Gold**
  Synthetic, clear, bonds to wet metal, corrosive resistant

### Trouble-Free Threaded Assemblies

- **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

---

(E) in product name indicates version made in Europe
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

- 652(E) 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 – 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 100 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 www.chesterton.com.

Chesterton EME

Chesterton Offices and Facilities

Chesterton International GmbH
Am Lenzenfleck 23
85737 Ismaning
Deutschland
Telephone: +49-89-9965-46-0
Fax: +49-89-9965-46-60

Chesterton Roma S.r.l.
Via Amatrice 15
00199 Roma
Italia
Telephone: +39 06 86 20 37 21
Fax: +39 06 86 20 38 24

Chesterton Hungary KFT
Gödöllői út 97
Mogyoród, H-2146 Magyarország
Hungary
Telephone: +36-28-540-450
Fax: +36-28-540-455

Chesterton ČR s.r.o.
Masarykova c.p. 56
582 56 Telč
Česká Republika
Telephone: +420-567-213-095
Fax: +420-567-213-007

Chesterton Slovakia s.r.o.
Strojnícka 103
821 05 Bratislava
Slovenská Republika
Telephone: +421-2-4363-2151
Fax: +421-2-4363-2191

Chesterton Hungary KFT
Gödöllői út 97
Mogyoród, H-2146 Magyarország
Hungary
Telephone: +36-28-540-450
Fax: +36-28-540-455

Chesterton Sweden AB
Tubba Torg 5
SE-37432 Karlshamn
Sverige
Telephone: +46-454-88202
Fax: +46-454-19890

Chesterton CR s.r.o.
Masarykova c.p. 56
582 56 Telč
Česká Republika
Telephone: +420-567-213-095
Fax: +420-567-213-007

Chesterton España, S.L.
Via Amatrice 15
00199 Roma
Italia
Telephone: +39 06 86 20 37 21
Fax: +39 06 86 20 38 24

Chesterton Slovakia s.r.o.
Strojnícka 103
821 05 Bratislava
Slovenská Republika
Telephone: +421-2-4363-2151
Fax: +421-2-4363-2191

Chesterton Hungary KFT
Gödöllői út 97
Mogyoród, H-2146 Magyarország
Hungary
Telephone: +36-28-540-450
Fax: +36-28-540-455

Chesterton Sweden AB
Tubba Torg 5
SE-37432 Karlshamn
Sverige
Telephone: +46-454-88202
Fax: +46-454-19890

Chesterton ČR s.r.o.
Masarykova c.p. 56
582 56 Telč
Česká Republika
Telephone: +420-567-213-095
Fax: +420-567-213-007

Chesterton Slovakia s.r.o.
Strojnícka 103
821 05 Bratislava
Slovenská Republika
Telephone: +421-2-4363-2151
Fax: +421-2-4363-2191

Chesterton Hungary KFT
Gödöllői út 97
Mogyoród, H-2146 Magyarország
Hungary
Telephone: +36-28-540-450
Fax: +36-28-540-455

Chesterton Sweden AB
Tubba Torg 5
SE-37432 Karlshamn
Sverige
Telephone: +46-454-88202
Fax: +46-454-19890

Chesterton distribution offices and facilities:

- Servicing plants in over 100 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 above, and through our network of authorized distributors. To find a service location near you, please visit www.chesterton.com.

Chesterton ISO certificates available on www.chesterton.com/corporate/iso

Technical data reflects results of laboratory tests and is intended to indicate general characteristics only. A.W. Chesterton Company disclaims all warranties express or implied, including warranties of merchantability and fitness for a particular purpose. Liability, if any, is limited to product replacement only. Any images contained herein are for general illustrative or aesthetic purposes only and are not intended to convey any instructional, safety, handling or usage information or advice respecting any product or equipment. Please refer to relevant Safety Data Sheets, Product Data Sheets, and/or Product Labels for usage, storage, handling, and disposal of products, or consult with your local Chesterton sales representative.

ChemLast™ is a trademark of A.W. Chesterton Company.

© 2018 A.W. Chesterton Company
® Registered trademark owned by A.W. Chesterton Company in USA and other countries, unless otherwise noted.

Distributed by:

A.W. Chesterton Company
860 Salem Street
Groveland, MA 01834 USA
Telephone: 781-438-7000
Fax: 978-469-6528
www.chesterton.com