Chesterton’s lubrication program provides you the expertise and support for your entire production process and maintenance operations. Our team of experts offer lubricants optimized for your specific industrial applications such as:

- 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
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 offers a broad range of lubricants specifically for chains. Our chain lubricants penetrate pin and bushings, providing critical lubrication. Chesterton lubricants also provide solutions to:

- Increase chain life
- Reduce energy consumption
- Reduce lubricant usage
- Increase load carrying capability
- Acceptable in food, pharmaceutical and beverage industries
- Penetrate into fine tolerances

Primary Chain Lubricants

601 Chain Drive Pin and Bushing Lubricant
**Premium, Low Viscosity Lubricant**
Premium-quality oil that penetrates between the close clearance of chain drive pin and bushings to provide critical lubrication.

-23°C – 150°C (-10°F – 300°F)

610 Plus, 610 MT Plus, 610 HT
**Synthetic Lubricating Fluid**
Premium-quality oil that penetrates between the close clearance of chain drive pin and bushings to provide critical lubrication.

Up to 270°C (520°F)
610 Plus—ISO VG 68
610 MT Plus—ISO VG 220
610 HT—ISO VG 460

660 Silicone Lubricant
**Low Viscosity Penetrating Food-Grade Lubricant**
A clear, silicone fluid that provides a continuous film lubrication for mechanical parts and sliding surfaces ideally of plastic, rubber, or metal; will not stain or leave gummy residues. **NSF H1**

-40°C – 205°C (-40°F – 400°F)

For high temperature, low speeds, and heavy loads.

690 Food Grade Lubricant
**USP White Food-Grade, High-Penetrating Lubricating Oil**
Premium quality, light oil that penetrates between the close clearance of precision parts, such as chain bushings and pins, to provide critical lubrication. **NSF H1**

-9°C – 120°C (15°F – 250°F)

715 Spraflex® and 715 Spraflex® Gold
**Adhesive Surface Lubricant**
Provides long lasting, non-extruding “wear shield” to protect equipment operating under heavy loads.

MAXIMIZING WIRE ROPE AND CABLE PERFORMANCE

Chesterton’s unique 2-part 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. Chesterton lubricants can:

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

601 Chain Drive Pin and Bushing Lubricant
Penetrates to the core for critical internal lubrication

715 Spraflex® or 715 Spraflex® Gold
Seals surface protecting against wet/high wear conditions

630 SXCF/630 SXCF 220 #1/635 SXC
Synthetic, extreme pressure, and corrosion resistant grease. Injectable grease for wire lubrication.

- 630 SXCF is **NSF H1**
- 630 SXCF 220 #1 is **NSF H1**
**Lubrication Technology**

**IMPROVING BEARING RELIABILITY**

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

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)

**Lubri-Cup™ EM-VS**
- Designed with vibration sensor to only lubricate when equipment is on.

**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**
- Transparent container for lubricant inspection
- Reliable lubrication system
- Ability to turn on and off

**Lubri-Cup™ VG Mini – 250cc**
- **Lubri-Cup™ VG Mini – 120cc**
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 ISO VG</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 Complex</td>
<td>Mineral</td>
<td>2</td>
<td>150</td>
<td>304°C (580°F)</td>
<td>-18°C – 150°C (0°F – 302°F)</td>
<td>500 Kg</td>
<td>&lt;1.0</td>
<td>300 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°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;0.5</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;3.0</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

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<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>30°C (86°F)</td>
<td>-23°C – 170°C (-10 – 338°F)</td>
<td>250 Kg</td>
<td>2.45</td>
<td>50 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 – 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°C – 204°C (-29 – 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>46</td>
<td>318°C (604°F)</td>
<td>-40°C – 240°C (-40 – 464°F)</td>
<td>620 Kg</td>
<td>&lt;0.05</td>
<td>&gt;1000 hours @50 microns</td>
</tr>
<tr>
<td>630 SXCF 220 #1</td>
<td>Calcium Sulfonate Complex</td>
<td>Synthetic (PAO)</td>
<td>1</td>
<td>220</td>
<td>316°C (600°F)</td>
<td>-40°C – 240°C (-40°F – 464°F)</td>
<td>400 Kg</td>
<td>&lt;1.0</td>
<td>&gt;1200 hours @50 microns</td>
</tr>
</tbody>
</table>

### Chesterton 615 High Temperature Greases

- HTG #1, HTG #2, and HTG #2-460
  - Superior water resistance
  - Excellent corrosion protection
  - Compatible with most popular greases
  - Exceptional shear resistance
  - Outstanding extreme pressure and temperature characteristics
  - HTG #1 is easily pumpable in automatic grease dispensing systems
  - HTG #2 - 460 is ideal for large, low speed bearings

### Chesterton 635 Synthetic, Extreme-Pressure, Corrosion-Resistant Grease

- Superior water washout resistance
- Excellent corrosion protection
- Compatible with most popular greases
- Exceptional shear resistance
- Anti-oxidants prevent hardening or crystallization
- Dropping point 318°C (604°F)
- QBT™ Quiet Bearing Technology
- Ideal for electric motors
Lubrication Technology

PROTECTING OPEN GEARS

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

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

710 Anti-Seize Compound
Our original and most valued anti-seize. Copper based 1100˚C (2000˚F)

723/723 FG Sprasolvo
Fast acting penetrating oil that frees frozen nuts, bolts and fittings without damage to the base metal. 723 FG is **NSF H1** for food plant use.

725 Nickel Anti-Seize Compound
Chemical resistant, hard nickel particles lubricate under most extreme industrial conditions. Superior performance for all metals. Up to 1425˚C (2600˚F)

715 Spraflex®
A cohesive, high film strength lubricant. Asphaltic, polymer modified base oil.

715 Spraflex® Gold
Synthetic, clear lubricant bonds to wet metal, corrosion resistant, adhesive resistant

783 ACR
Exceptional corrosion protection and water wash-out resistance, used plant-wide. Up to 900˚C (1650˚F)

785/785 FG Parting Lubricant
Proprietary solid lubricants, no heavy metals. Replaces Nickle and Copper products. 785 FG is **NSF H1**, for food plant use. Clean and non-staining. Up to 1204˚C (2200˚F)

772 Premium Nickel Anti-Seize
For specialty applications and alloy where Halogen, Sulfur, and low melting point metals are restricted.

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
- Reduced breakaway torque for quicker disassembly

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772 Premium Nickel Anti-Seize
For specialty applications and alloy where Halogen, Sulfur, and low melting point metals are restricted.

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
- Protects against clogged solenoids and sticking air tools
- Removes rust, sticky residues, and dirt
- Reduces lubricant consumption
- Increases packing/sealing ring life
- Lowers energy costs

652 Pneumatic Lubricant and 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. Ideal for press fits.

- Microscopic solid lubricants—do not wipe off
- Prevent wear, galling, and seizure
- Ideal for press fits and slip fits
- Low coefficient of friction
- Suitable for screws, worm drives, stem nut lubrication, and actuators

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 enables reliable valve actuation.

- Excellent corrosion protection
- Best-in-class water washout resistance
- Long-term stability
- Unsurpassed anti-wear and extreme pressure resistance
- Lubricates bearing, gears, and MOV mechanisms

615 HTG #1 and 615 HTG #2
Outstanding extreme pressure capabilities, oxidation inhibited for motor-operated valves

652 Pneumatic Lubricant and Conditioner
Provides critical liquid lubrication for air operated valves

625 CXF
Food grade, mineral oil, extreme pressure, and corrosion resistant grease. NSF H1

630 SXCF
Food grade, synthetic, extreme pressure and corrosion resistant grease. NSF H1

630 SXCF 220-#1
Food grade, synthetic, extreme pressure and corrosion resistance grease. NLGI #1 for higher pumpability. NSF H1

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 113 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 chesterton.com