FOOD, BEVERAGE, AND PHARMACEUTICAL
HIGH PERFORMANCE LUBRICATION AND MAINTENANCE SOLUTIONS
Chesterton's high-performing, NSF® registered lubricants, maintenance solutions, cleaners, and degreasers offer:

- Innovative solutions designed to withstand extreme operating conditions
- Optimal levels of process performance improvements
- Extended equipment life and lower overall operational costs
- Maximized uptime and reduced maintenance time

Our advanced technologies and stringent manufacturing/testing processes provide you with superior quality products you can rely on. We have a wide range of lubrication and maintenance products registered to NSF standards. Our manufacturing and testing processes are independently audited by the International Organization for Standardization (ISO).

Our NSF Registered lubrication and maintenance solutions will help you:

- Maintain the integrity of your products and comply with inspection requirements
- Comply with federal regulations
- Reduce contamination due to washout and wash off
- Permit plant wide use and standardization due to our performance-driven design

Chesterton is a global company committed to local support and services. In partnership with our distributors, we provide world-class technical support with over 500 sales/service locations in 113 countries. This local services means:

- A quick turnaround on your orders
- Local expertise for plant surveys and applications-specific support
- A local representative who can best understand your unique challenges
IMPROVE BEARING RELIABILITY

Food, beverage, and pharmaceutical facilities are subjected to extreme temperatures, heavy loads, high humidity, water, and chemical wash down. This often leads to displacement and degradation of lubricants and increases the occurrence of equipment failure.

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 providing:

- Exceptional water and chemical washout resistance greases
- Excellent corrosion protection
- High load carrying ability
- QBT™ (Quiet Bearing Technology)
- Automatic grease dispensing
- Reduced lubricant consumption

EXTEND EQUIPMENT LIFE FOR CHAIN DRIVES

Most factories operate in severe conditions, so equipment wear and eventual failure is inevitable. Chains, pneumatic controls, wire ropes, open gears, and threaded parts are critical components in everyday processes and extending their life can help reduce downtime and loss of productivity that can increase operating costs.

Chesterton offers a range of lubricants that extends the life of equipment by improving reliability and productivity and by reducing costs while maintaining the high quality standards required.

- Improved process efficiency
- Reduced energy consumption

MAINTAIN PLANT EQUIPMENT

Ensuring product safety is the number one priority, and this can be achieved only by maintaining plant equipment at a high level of cleanliness.

Chesterton offers a broad range of maintenance and repair technologies that work on varying levels of soils and surfaces. We provide solutions that are worker- and environmentally-safe for:

- Machinery/plant cleaning and degreasing
- Maintenance shop degreasing and cleaning
- Electrical cleaning
- Parts degreasing
**Industrial Grease Technology**

**IMPROVE BEARING RELIABILITY**

Chesterton’s high performance greases offer extended bearing life and reliability even under the harshest conditions of load, temperature, water, and corrosion. We have a full line of NSF certified H1 and H2 greases that address many bearing lubrication challenges that plague the food, beverage, and pharmaceutical industry.

### Bearing Lubricants

**622 White Grease**

**Superior Quality, Multi-Purpose H1 Food Grade Lubricant**

PTFE-fortified mineral oil grease for areas where clean, non-staining, food grade lubricant is required. **NSF H1**

- Virtually colorless, odorless, and tasteless
- Excellent water and corrosion-resistance

**Applications:** Rollers, conveyor belts, valves, carton filling equipment, and meat packing equipment.

**625 CXF**

**Corrosion-Resistant, Extreme-Pressure Food Grease**

High performance, corrosion-resistant grease with outstanding pressure capabilities and excellent water washout resistance. **NSF H1**

- Pure USP white mineral oil base
- Exceptional shear resistance
- Superior resistance to shock load and vibration

**Applications:** Fruit feeders, paste and sauce fillers, canning machinery, and processing and packaging machines.

**629 HTWG**

**High-Temperature White Grease**

Premium quality, pure mineral oil, and PTFE-fortified grease with excellent resistance to steam, caustics, and other cleaning agents. **NSF H1**

- Virtually colorless, odorless, and tasteless
- Smooth, tacky texture adheres to metal
- Excellent water resistance

**Applications:** Slides, grease-lubricated chains, textile machinery, paste and sauce fillers, canning machinery.

**630 SXCF**

**Corrosion-Resistant, Extreme-Pressure Food Grease**

High performance, corrosion-inhibited synthetic grease with outstanding extreme pressure capabilities and excellent water washout resistance. **NSF H1**

- Contains anti-oxidants that prevent hardening or crystallization
- Excellent shear stability
- Nonreactive with all metals, rubber, and plastics
- No heavy metal additives

**Applications:** Suitable for all bearings operating at higher speeds or cold temperatures, electric motors, canning machinery, and packaging machines.

**630 SXCF 220 #1**

**Synthetic, Extreme-Pressure, Corrosion-Resistant Food Grease**

Corrosion-inhibited synthetic grease that continues to lubricate even in the presence of heat, steam, and hot water washdowns. **NSF H1**

- Easy to pump through centralized lines
- Superior water sprayoff and washout resistance
- Acid- and sanitizer-resistant
- Antioxidants that prevent hardening or crystallization

**Applications:** Medium to large bearings or bearings at slow speeds, bottle washers, mixers, pasteurizers, canning lines, pelletizers, and extruders.
### 615 HTG #1, #2, and #2-460

**High-Temperature Grease**
High performance, mineral base grease for use on slower moving, heavily loaded bearings. **NSF H2**

- **615 #1 and #2**:
  - Outstanding shear- and corrosion-resistance
  - Easily pumpable with automatic grease dispensers

- **615 #2-460**:
  - Extremely low water washout
  - For slower moving, heavily loaded bearings

**Applications**: Bearings, conveyors, mechanical presses, blowers, crushers, mixers, augers, and screw conveyors.

### 635 SXC

**Synthetic, Extreme-Pressure, Corrosion-Resistant Grease**
Synthetic, extreme-pressure, and corrosion-resistant grease with superior high-temperature stability. Ideal for the lubrication of electric motors. **NSF H2**

- Excellent resistance to shock load and vibration
- Superior water washout resistance
- Compatible with most greases

**Applications**: Electric motor bearings, hot process fluid systems, fans and blowers, conveyors, and ovens.

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### Industrial Grease Technology Selection Guide

<table>
<thead>
<tr>
<th></th>
<th>615 HTG #1</th>
<th>615 HTG #2</th>
<th>615 HTG #2-460</th>
<th>622 White Grease</th>
<th>625 CXF</th>
<th>629 HTWG</th>
<th>630 SXCF</th>
<th>635 SXC</th>
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<tbody>
<tr>
<td><strong>Thickener</strong></td>
<td>Calcium Sulfonate Complex</td>
<td>Calcium Sulfonate Complex</td>
<td>Calcium Sulfonate Complex</td>
<td>Aluminum Complex</td>
<td>Calcium Sulfonate Complex</td>
<td>Inorganic</td>
<td>Calcium Sulfonate Complex</td>
<td>Calcium Sulfonate Complex</td>
</tr>
<tr>
<td><strong>Base Oil</strong></td>
<td>Mineral</td>
<td>Mineral</td>
<td>Mineral</td>
<td>Mineral</td>
<td>Mineral</td>
<td>Synthetic Mineral (PAO) Blend</td>
<td>Synthetic (PAO)</td>
<td>Synthetic (PAO)</td>
</tr>
<tr>
<td><strong>NLGI Grade</strong></td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td><strong>Base Oil Viscosity</strong></td>
<td>100</td>
<td>100</td>
<td>460</td>
<td>100</td>
<td>100</td>
<td>220</td>
<td>40</td>
<td>100</td>
</tr>
<tr>
<td><strong>Dropping Point ASTM D2265</strong></td>
<td>300°C (572°F)</td>
<td>318°C (604°F)</td>
<td>300°C (572°F)</td>
<td>245°C (473°F)</td>
<td>318°C (604°F)</td>
<td>260°C (500°F)</td>
<td>318°C (604°F)</td>
<td>318°C (604°F)</td>
</tr>
<tr>
<td><strong>Service Temp.</strong></td>
<td>-45°C – 204°C (-50°F – 400°F)</td>
<td>-40°C – 204°C (-40°F – 400°F)</td>
<td>-40°C – 204°C (-40°F – 400°F)</td>
<td>-23°C – 170°C (-10°F – 338°F)</td>
<td>-30°C – 204°C (-22°F – 400°F)</td>
<td>-34°C – 204°C (-29°F – 400°F)</td>
<td>-40°C – 240°C (-40°F – 464°F)</td>
<td>-40°C – 240°C (-40°F – 464°F)</td>
</tr>
<tr>
<td><strong>Four Ball Wear Weld Load, ASTM D2596</strong></td>
<td>620 Kg</td>
<td>620 Kg</td>
<td>500 Kg</td>
<td>250 Kg</td>
<td>620 Kg</td>
<td>160 Kg</td>
<td>620 Kg</td>
<td>800 Kg</td>
</tr>
<tr>
<td><strong>Water Washout Resistance ASTM D1264</strong></td>
<td>&lt;1.0</td>
<td>&lt;0.5</td>
<td>&lt;3.0</td>
<td>2.45</td>
<td>&lt;0.05</td>
<td>&lt;0.2</td>
<td>&lt;0.05</td>
<td>&lt;0.05</td>
</tr>
<tr>
<td><strong>Corrosion Resistance ASTM B117</strong></td>
<td>&gt;1000 hours @50 microns</td>
<td>&gt;1000 hours @50 microns</td>
<td>&gt;1000 hours @50 microns</td>
<td>500 hours @50 microns</td>
<td>&gt;1000 hours @50 microns</td>
<td>50 hours @50 microns</td>
<td>&gt;1000 hours @50 microns</td>
<td>&gt;1000 hours @50 microns</td>
</tr>
<tr>
<td><strong>Speed Factor</strong></td>
<td>70000 – 300000 nDm</td>
<td>70000 – 300000 nDm</td>
<td>70000 – 300000 nDm</td>
<td>50000 – 250000 nDm</td>
<td>75000 – 250000 nDm</td>
<td>50000 – 800000 nDm</td>
<td>150000 – 800000 nDm</td>
<td>78000 – 500000 nDm</td>
</tr>
</tbody>
</table>
Advanced Oil Technology

EXTEND EQUIPMENT LIFE FOR CHAIN DRIVES
Chesterton’s advanced oil technologies help to extend equipment life and improve reliability by providing long-term protection in harsh conditions and resulting in lower operating costs.

Industrial Lubricants

**660 Silicone Lubricant**

*Low Viscosity Penetrating Food Grade Lubricant*
A clear, silicone fluid that provides continuous film lubrication for mechanical parts and sliding surfaces. **NSF H1**
- Stable, long lasting lubricant
- Does not stain or leave gummy residue
- Excellent release agent
- Makes surfaces water-resistant
- Non-toxic and fire-resistant

*Applications:* Plastic gears, plastic conveyor belts, rollers, rubber gaskets, chains with plastic bushings.

*660 is not recommended for metal-to-metal lubrication.*

**601 Chain Drive Pin and Bushing Lubricant**

*Premium, Low Viscosity Lubricant*
Penetrates the pin and bushing to provide critical lubrication and wear resistance. **NSF H2**
- Corrosion-inhibiting properties
- Extends chain life up to two to four times
- Extreme pressure additives increase load carrying ability
- Keeps chain clean; does not collect dirt and dust

*Applications:* Chain drives for assembly and packaging lines, power transmission chains, conveyor drives, chain hoists, and forklift trucks.

**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**
- Clear, odorless, and non-staining
- No dirt, dust, or stick residue build up
- Non-drying film extends chain life two to four times
- Three times greater load carrying ability compared to mineral oil

*Applications:* Chain drives for assembly lines, conveyors, packaging equipment, hoist chains and links, and roller assemblies.

**652 Pneumatic Lubricant and Conditioner**

*High Performance, Low Viscosity Lubricant*
Cleans, protects, and prolongs the life of pneumatic equipment. **NSF H2**
- Reduces sticky sludge build up
- Displaces in-line moisture
- Prolongs life of air systems
- Significantly reduces power consumption
- Cleans rust, sludge, and dirt from all air tools as it lubricates

*Applications:* Air tools, solenoids and cylinders, air line lubricators, and pneumatic actuators.

**715 Spraflex® Gold**

*Adhesive Surface Lubricant*
Provides long-lasting, non-extruding “wear shield” to protect equipment operating under heavy loads. **NSF H2**
- Does not slide off like grease
- Protects against corrosion
- Non-drip, self-adhering flexible lubricant
- Does not wash off, even under water

*Applications:* Chain drives, open gears, hoists, wire ropes and cables, rotary feeders, and conveyor chains.
Advanced Oil Technology Selection Guide

<table>
<thead>
<tr>
<th>Lubri-Cup™ EM Series</th>
<th>Lubri-Cup™ OL 500 Oiler</th>
<th>Lubri-Cup™ VG/VG Mini</th>
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<tr>
<td><strong>Electromechanical Automatic Grease Dispenser</strong></td>
<td><strong>“Pulse” Delivery: Automatic Lubrication System</strong></td>
<td><strong>Variable Gas, Single-Point Automatic Lubrication System</strong></td>
</tr>
<tr>
<td>Our most powerful and sophisticated dispenser. Microprocessor controlled and electromechanical automatic lubricator equipped with a divider block to lubricate multiple bearings. These robust units have a compact, convenient, and sturdy design that is simple to install, operate, and maintain.</td>
<td>Delivers a precise amount of oil lubrication to the vital parts of rotating or sliding equipment.</td>
<td>Compact, reliable, easy to use set. Microprocessor controlled and actuated with thermally stable nitrogen gas to automatically deliver grease to bearings. Ideal for areas that are difficult to reach for regular lubrication.</td>
</tr>
<tr>
<td>EM: Primary Unit, Microprocessor “Pulse” Delivery System</td>
<td>• Easily refillable</td>
<td>• Disposable unit, direct mount to equipment</td>
</tr>
<tr>
<td>EM-SP: Operation is Machine Synchronized</td>
<td>• Lubricates up to 4 points up to 6 M (19 ft)</td>
<td>• Remote installation: up to 1 M (3 ft)</td>
</tr>
<tr>
<td>EM-VS: Vibration Sensing Machine Synchronized</td>
<td>• Single-point dispensing up to 10 M (33 ft)</td>
<td></td>
</tr>
<tr>
<td>• Replaceable service packs</td>
<td>• Diagnostic feedback on LCD screen</td>
<td></td>
</tr>
<tr>
<td>• Lubricates up to 8 bearings with divider block</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Single-point dispensing up to 10 M (33 ft)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• LCD with visual feedback</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Multiple point dispensing up to 6 M (19 ft)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Automatic Lubrication Dispensers

Over- and under-lubrication can cause havoc on bearings and equipment reliability. Lubri-Cup™ Automatic Lubricant Dispensers delivers a precise amount of industrial grease or oil at specific intervals, which addresses the primary cause of premature bearing failure. The automatic dispensers are ideal for applications where reliability is critical. The ideal temperature range for an alkaline battery is -15°C – 60°C (-10°F – 300°F) and for a lithium battery it is -40°C – 60°C (-40°F – 140°F).

Lubri-Cup™ EM Series

**ISO VG (ASTM D2422)**

<table>
<thead>
<tr>
<th>Operating Temperature</th>
<th>Specific Gravity</th>
<th>Viscosity @ 40 C (cSt) (ASTM D445)</th>
<th>Viscosity @ 100 C (cSt) (ASTM D445)</th>
<th>Viscosity Index (ASTM D2270)</th>
<th>Pour Point (ASTM D97)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EM</td>
<td>22</td>
<td>22</td>
<td>4</td>
<td>58</td>
<td>-25°C (-13°F)</td>
</tr>
<tr>
<td>EM-S</td>
<td>22</td>
<td>22</td>
<td>4</td>
<td>58</td>
<td>-25°C (-13°F)</td>
</tr>
<tr>
<td>EM-VS</td>
<td>22</td>
<td>22</td>
<td>4</td>
<td>58</td>
<td>-50°C (-58°F)</td>
</tr>
<tr>
<td>EM-VS</td>
<td>-9°C – 120°C (16°F – 248°F)</td>
<td>0.88</td>
<td>22</td>
<td>49</td>
<td>-40°C (-40°F)</td>
</tr>
</tbody>
</table>

Lubri-Cup™ OL 500 Oiler

**“Pulse” Delivery: Automatic Lubrication System**

Delivers a precise amount of oil lubrication to the vital parts of rotating or sliding equipment.

- Easily refillable
- Lubricates up to 4 points up to 6 M (19 ft)
- Single-point dispensing up to 10 M (33 ft)
- Diagnostic feedback on LCD screen

Lubri-Cup™ VG/VG Mini

**Variable Gas, Single-Point Automatic Lubrication System**

Compact, reliable, easy to use set. Microprocessor controlled and actuated with thermally stable nitrogen gas to automatically deliver grease to bearings. Ideal for areas that are difficult to reach for regular lubrication.

- Disposable unit, direct mount to equipment
- Remote installation: up to 1 M (3 ft)
Bolting Reliability and Sealing Solutions

723 and 723FG Sprasolvo™

*Fast-Acting, Penetrating Oil*
A convenient, non-flammable propellant aerosol can. Excellent for hard-to-reach areas where rust, tar, grease, and dirt may prevent easy removal of nuts, bolts, and fittings. 723 is NSF H2; 723FG is NSF H1
- Extremely low surface tension
- No irritating vapors
- Creeps into microscopic spaces
- Contains no aromatics, ketones, or chlorinated solvents

**Applications:** Plumbing, machinery, trucks, pipelines, railroads, tractors, steam and gas fittings, valves, and pumps.

860 Moldable Polymer Gasketing

*Flexible Gasketing Material*
Two-part, flexible gasket material which fills in surface irregularities, and never sticks to surfaces after curing. Conforms to FDA standards 21CFR 175.300 and 177.2600. NSF P1
- Up to 260°C (500°F)
- Gap filling up to 6 mm (1/2”)
- Remains elastic and stable
- Molds to any shape flange

**Applications:** For sealing complex mechanical assemblies, gearboxes, inspection covers, transmissions, bearing housings, and speed differentials.

785 FG Parting Lubricants

*Food Grade Anti-Seize Compound*
For extreme conditions of temperature and pressure to assist in the assembly and disassembly of threaded parts. NSF H1
- -34°C – 1204°C (-29°F – 2200°F)
- Contains no toxic heavy metals
- Water and chemical resistance
- Prevents bolt seizure for easy disassembly

**Applications:** Bolts, screws, studs, pipe threads, press fits, and pump sleeves.

800 GoldEnd® Tape

*100% Pure PTFE Sealant Tape*
Heavy-duty, high-density, tear-resistant, moldable, PTFE sealing tape for metal or plastic threads, pipes, or bolts. Requires fewer wraps. Meets MIL-T 27730A. NSF H1, P1
- -240°C – 260°C (-400°F – 500°F)
- Adjustable up to 90°
- Can be used with virtually all chemicals

**Applications:** Seals all plumbing and most industrial piping threads and pneumatic and hydraulic fittings up to 690 bar (10000 psi).

3500 Valvelon™

*PTFE Packing/Sealant*
A dense, multi-layered, 100% PTFE sealant used as a non-hardening valve packing or flange gasket. The unique construction allows it to squeeze in all directions to fill voids and conform to surface shapes. NSF P1
- -240°C – 260°C (-400°F – 500°F)
- Pressure up to 35 kg/cm² (500 psi).
- pH range 0 – 14
- Non-reactive to most chemicals except oxygen

**Applications:** Utility system valves such as water, vacuum compressed air, lubrication lines, hot water, steam, process valves, and valve packing
Corrosion Inhibitors and Compounds

Chesterton offers three solutions for cost-effective protection of critical replacement parts.

740 Heavy Duty Rust Guard

*Heavy-Duty Corrosion Preventative Coating*

Long-term, corrosion-preventative coating provides heavy-duty metal protection without critical surface preparation to all areas constantly exposed to humidity and corrosive fumes. Conforms to MIL-C-16173D, Grades 1 and 4

- Does not crack or peel
- Protection for up to two years

**Applications:** Parts in storage such as machinery, tubing, castings, rods, jigs and fixtures, stampings, pumps, fittings, valves, and indoor structural steel.

*Product can be easily removed with Chesterton’s 276 Electronic Component Cleaner or 274 Industrial Degreaser.*

775 Moisture Shield

*Ultra Thin, Anti-Corrosion Coating*

Clear, moisture displacing, anti-corrosion film that protects metal parts and equipment for months. Conforms to MIL-C-16173D, Grade 3, NSF H2

- High coverage 30 m²/l (1200 ft²/gal)
- Dry film, does not collect dust

**Applications:** Parts in process, transit, or storage; electrical systems; and the marine industry.

*775 is easily removed with Chesterton’s water or solvent-based cleaners. Use Chesterton’s 740 Heavy Duty Rust Guard where long-term protection is needed.*

730 Spragrip®

*Belt Dressing*

Superior, energy-efficient belt dressing in a convenient aerosol package. Reduces belt slippage for all V, flat, and round belts. Protects against degradation from UV rays, chemical fumes, and water. NSF P1

- Non-staining
- No glazing or hardening
- Waterproofs and protects against slipping even under the most humid conditions

**Applications:** Belt drives, fans, industrial equipment, package conveyors, conveyor belts, generators, pumps, compressors, and indoor or outdoor applications.

Metalworking Fluids

390 Cutting Oil

*Oil-Based Cutting Fluid for All Types of Metal Cutting and Forming*

A high viscosity, oil-based lubricant reinforced for heavy-duty machining applications. NSF H2

- Extends tool life
- Excellent lubricity and heat dissipation

**Applications:** Broaching, boring, drilling, sawing, reaming, milling, tapping, and countersinking.

Seal Equipment Easily with 860 Moldable Polymer Gasketing

- Excellent resistance to oils, water, chemicals, and solvents
- Never sticks to surfaces and disassembles cleanly
- Conforms to FDA standard 21 CFR 175.300 and 177.2600
- Ideal applications: Inspection covers, gearboxes, bearing housings, fittings, casings, electrical boxes, and pneumatic systems
- Fills voids and scratches up to 6 mm (1/4”) deep
- Remains elastic
Chesterton offers a range of water- and solvent-based cleaners and degreasers perfect for your cleaning and maintenance needs.

**Water-Based Cleaners/Degreasers**

**360 Phosphate-Free Cleaner***

*Cleaner for Natural Oils, Fats, and Organic Residues*

A powerful, water-based degreaser optimized to remove natural oils and fats commonly used in the food industry. **NSF A1, A4**

- Biodegradable, non-flammable and phosphate free
- No EDTA, Butyl Cellosolve®, or toxic solvents
- Removes inorganic and light-to-medium organic soils
- Saponifies natural oils and animal fats

**Applications:** Removing natural oils and greases from process equipment, plant walls, and floors.

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**803 Industrial and Marine Solvent II***

*Emulsifies Grease and Oils*

A non-solvent-based degreaser with advanced surfactant technology for maximum efficiency in soil removal. **NSF A1**

- Biodegradable and non-flammable
- Fast removal: petroleum oil and grease
- No EDTA, 2-Butoxyethanol, or toxic solvents
- Compatible with pressure washers and oil tanks

**Applications:** General degreasing of plant equipment, concrete floors, masonry walls, and other hard surfaces.

*Use Chesterton 235 SCC for steam cleaning applications*

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**820 KPC and 820N KPC**

*Eco-Friendly, Powerful Degreaser*

Ideal choice for process degreasing. **820 KPC is NSF A1; 820N KPC is NSF A1, A4**

- Moderate pH, phosphate free
- Safe on most metals
- Effective for dip tank cleaning when heated
- May be used in temperatures up to 82°C (180°F)

**Applications:** Oil deposits, soot and exhaust residue, metalworking fluids, animal and vegetable fats, lubricants, and soils common in production areas.

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**Electrical Cleaners/Degreasers**

**273 Electric Motor Cleaner**

*Non-Flammable, Non-Conductive*

A non-corrosive, solvent-based degreaser. Product can be used on operating equipment and electrical systems to cut through tough grease, dirt, grime, tar, and oil found in industry. **NSF H2**

- High dielectric strength
- Fast penetration, high solvency
- Non-flammable

**Applications:** Cleans electrical equipment, electric motors, fuse holders, and blowers.

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**276 Electronic Component Cleaner**

*Fast-Evaporating, Industrial-Strength, Solvent-Based Cleaner/Degreaser*

Contains no ozone depleting solvents. Product is compatible with most surfaces; to remove dust, dirt, oil, and other soils. **NSF K2**

- Cleans quickly, evaporates rapidly
- Halogen-free and no ozone-depleting chemicals
- Low residue

**Applications:** Spray cleaning, switches, controllers, panel meters, circuit boards, contacts, levers, and control panels.

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**279 PCS** and **296 Electronic Contact Cleaner**

*Fast Evaporating, High-Purity, Low-Residue Cleaner*

Environmentally responsible alternative to hazardous solvents. Removes dust, dirt, and organic residues from electrical and optical components. **NSF K2**

- Fast evaporating, no residue
- No ozone-depleting chemicals
- No plastic attack

**Applications:** Controllers, panel meters, circuit boards, contacts, motorized instruments, and control panels.

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* Chesterton 360 and 803: Should not be used on aluminum or metals sensitive to high alkalinity
** Chesterton 279 PCS is non-flammable
Solvent-Based Cleaners/Degreasers

**274 Metal Surface Degreaser**

*Industrial Degreaser*
An industrial-strength, hard surface degreaser which will dissolve grease, oil, and other similar water insoluble residues. Product can be applied by spray, brush, or dipping and does not contain any ozone depleting substances. **NSF C1, K1, K2**
- Low odor
- Safe for use on all metals
- No chlorinate solvents

**Applications:** Production operations, maintenance departments, parts washers.

**277 Metal Surface Degreaser**

*Industrial-Strength Degreaser*
Fast evaporating, solvent-based degreaser for hard surfaces. Removes oil, grease, wax, and other organic soils. **NSF C1, K1**
- Low residue and aromatic content
- Flash point: -6˚C (21˚F)
- Does not damage most materials including common plastics

**Applications:** Cleaning oil and grease from bearings, gears, valves, chains, molds, and electro-mechanical assemblies.

**292 Precision Degreasing Solvent**

*Industrial-Strength Solvent Cleaner*
Industrial-strength solvent blend that cleans equipment before assembly, maintenance, and repair. Removes oil, grease, wax, and other organic soils. **NSF K1, K2, K3**
- Fast removal of heavy oil and grease
- Safe for all metals
- Low odor, residue, and aromatic content
- Flash point: 40˚C (105˚F)
- Moderate evaporation rate

**Applications:** Cleaning bearings, valves and fittings, chains, cables, molds, lathes, presses, non-energized electrical equipment, and production tools.

Test 292 before using on rubber and plastics

**294 Critical Surface Degreaser (CSD)**

*Powerful Industrial Degreaser*
Safe, fast evaporating, solvent-based degreaser cleans the most difficult oily residues, adhesives, and glues. **NSF C1, K1, K3**
- Rapid cleaning
- Low aromatic content
- Flash point: -18˚C (-4˚F)

**Applications:** Precision cleaning of bearings, pulleys, valves and fittings, chains, electromechanical assemblies, molds, presses, production tools, and finished parts.

Test 294 before using on paint, rubber, and plastics

Acid-Based Cleaners/Degreasers

**338 Super Rust Remover**

*Highly Concentrated, Leaves Metal Paint-Ready*
Superior, acid-based cleaner for safe removal of rust, metal, deposits, and other oxides. Protects against subsequent rusting. **NSF A3**
- Can be used on all metals
- Removes metal oxide layer
- Rinses clean with water
- Inhibited to protect base metals

**Applications:** Machine tool frames, machined parts, restores rusted inventory restoration, nuts/bolts, threaded assemblies, internal corrosion, shafts, and cast housings.

**346 Descaler and Chemical Cleaner***

*Acid-Based Cleaner, Biodegradable; Saves on Labor*
Concentrated, multi-use, acid-based cleaner for removing inorganic soils and coatings such as hard water deposits. Also able to effectively etch concrete, mineral scales, and metal oxides. **NSF A3**
- Dissolves rust and scale while protecting base surface
- Inhibits attack on metals

**Applications:** Steam boiler tubes, condenser water systems, water circulating equipment, concrete etching, stained concrete cleaning, and mineral scale removal.

***Chesterton 346: Not for use on aluminum, painted enamel, stainless steel, or decorative metals***
# Cleaners and Degreasers

## Acid-Based Cleaners/Degreasers

Removes Scale and Rust

<table>
<thead>
<tr>
<th>Soil/Deposit</th>
<th>Acid-Based Cleaners/Degreasers</th>
<th>338 Super Rust Remover</th>
<th>346 Descaler and Chemical Cleaner*</th>
<th>360 Phosphate-Free Cleaner</th>
<th>803 IMS II and 235 SSC**</th>
<th>KPC 820 and 820N</th>
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<tbody>
<tr>
<td>Heavy Oil, Adhesives, Glues</td>
<td>NR</td>
<td>NR</td>
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<td>Grease, Petroleum Oil, Dirt</td>
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<tr>
<td>Natural Oils—Animal Fat, Vegetable Oil</td>
<td>NR</td>
<td>NR</td>
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<td>Scale</td>
<td>✓</td>
<td>✓</td>
<td>NR</td>
<td>NR</td>
<td>NR</td>
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<tr>
<td>Rust</td>
<td>✓</td>
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<td>NR</td>
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</tbody>
</table>

## Alkali-Based Cleaners/Degreasers

Cleans Petroleum Oil, Greases, Natural Oils, Dirt and Dust; Biodegradable

<table>
<thead>
<tr>
<th>Soil/Deposit</th>
<th>Alkali-Based Cleaners/Degreasers</th>
<th>338 Super Rust Remover</th>
<th>346 Descaler and Chemical Cleaner*</th>
<th>360 Phosphate-Free Cleaner</th>
<th>803 IMS II and 235 SSC**</th>
<th>KPC 820 and 820N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy Oil, Adhesives, Glues</td>
<td>NR</td>
<td>NR</td>
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</table>

## Solvent-Based Cleaners/Degreasers

- **Plastic Surfaces**
  - Slow Drying: Yes
    - 272 and 292
  - Fast Drying: Yes
    - 277

- **Metal Surfaces**
  - Oil/Grease: Yes
    - Flash Point Above 38˚C (100˚F): Yes
      - 274 or 292
    - Flash Point Below 38˚C (100˚F): Yes
      - 277
  - Adhesive/Glues: Yes
    - Fast Drying: Yes
      - 294

## Acid Cleaners

- Scale Hardwater Deposits: No
  - Yes
- Rust Removal: Yes
  - Is Muriatic Acid Acceptable: Yes
    - Yes
    - No
- 338
- 346
- 338

---

*Chesterton 346: Not for use on aluminum, painted enamel, stainless steel, or decorative metals

**Use Chesterton 235 SSC for steam cleaning applications
### Product Selection Guides

#### Solvent-Based Cleaners/Degreasers

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<th>292 Metal Surface Degreaser</th>
<th>277 Precision Degreasing Solvent</th>
<th>294 CSD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface</td>
<td>Paint- and Plastic-Safe</td>
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<td>Tough Soil</td>
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<td>Dip Tank</td>
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<td>Closed Circulation,</td>
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<td>Pipeline</td>
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#### General Purpose and Applications

<table>
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<tr>
<th>Equipment and Method</th>
<th>274 Industrial Degreaser</th>
<th>292 Metal Surface Degreaser</th>
<th>277 Precision Degreasing Solvent</th>
<th>294 CSD</th>
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<tbody>
<tr>
<td>Food Processing</td>
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<td>Cleaning Purpose</td>
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#### Electrical Cleaners

<table>
<thead>
<tr>
<th>Electrical Cleaners</th>
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<th>276 Electronic Component Cleaner</th>
<th>279 Electronic Contact Cleaner</th>
<th>296 Electro Contact Cleaner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface</td>
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<tr>
<td></td>
<td>Electrical Motors—Non-Energized</td>
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<td>NR</td>
<td>✓</td>
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<tr>
<td></td>
<td>Electrical Components—Energized</td>
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<tr>
<td></td>
<td>Electrical Components—Non-Energized</td>
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</tbody>
</table>

#### Water-Based Cleaners

- Manual Degreasing: Dip Tanks/Power Washers/Steam Cleaners
  - pH > 12 In Use: Yes
  - pH < 10 In Use: Yes
  - Animal Fat: Yes
  - Vegetable Oil: Yes
  - Concentrated: Yes
  - 360
  - 820

#### Electrical Cleaners/Degreasers

- Sensitive to Plastic: Yes
- Fast Evaporation: No
- Is Flammability a Concern: Yes
- HCFC/Chlorinated Solvents: Yes
- 274
- 276
- 279 and 296
- Fast Evaporation: Yes
- 273
The following code letters designate the permissible use for each authorized compound, and conditions for use are restricted by the category in which it is placed.

**NOTE:** In several categories, reference is made to the need for rinsing with potable water. FIAD accepts water used in federally inspected plants as being potable when such certification is made by state health agency authorities.

### A. Cleaning Compounds

**A1** – Compounds for use as general cleaning agents on all surfaces, or for use with steam or mechanical cleaning devices in all departments.

Before using these compounds, food products and packaging materials must be removed from the room or carefully protected. After using these compounds, surfaces must be thoroughly rinsed with potable water.

**A2** – Compounds for use only in soak tanks or with steam or mechanical cleaning devices in all departments.

Before using these compounds, food products and packaging materials must be removed from the room or carefully protected. After using these compounds, all surfaces in the area must be thoroughly rinsed with potable water.

**A3** – Acid Cleaners for use in all departments.

Before using these compounds, food products and packaging materials must be removed from the room or carefully protected. After using these compounds, all surfaces in the area must be thoroughly rinsed with potable water.

**A4** – Floor and Wall Cleaners for use in all departments.

Before using these compounds, food products and packaging materials must be removed from the room or carefully protected. After using these compounds, all surfaces in the area must be thoroughly rinsed with potable water.

### C. Compounds Used in Inedible and Non-processing Areas

**C1** – Compounds for use on all surfaces in inedible product processing areas, non-processing areas, and/or exterior areas.

These compounds must not be used to mask odors resulting from unsanitary conditions. They must be used in a manner that prevents penetration of any characteristic odor or fragrance into edible product areas.

Permission for use of these compounds on loading docks and other similar areas is left to the discretion of the inspectors in charge of the plants.

### H. Lubricants

**H1** – Lubricants

These compounds may be used as a lubricant or anti-rust film on equipment and machine parts in locations in which there is exposure of the lubricated part to edible products. They may also be used as a release agent on gaskets and seals of tank closures. The amount used should be the minimum required to accomplish the desired technical effect on the equipment. If used as an anti-rust film, the compound must be removed from the equipment surface by washing or wiping as required to leave the surface effectively free of any substance which could be transferred to the food being processed.

**H2** – Lubricants

These compounds may be used as a lubricant, release agent, or ant-rust film on equipment and machine parts or in closed systems (e.g., hydraulic systems) in locations in which there is no possibility of the lubricant or lubricated part contacting edible products.

### K. Solvent Cleaners

**K1** – Solvents and Solvent Degreasers for use in non-processing areas.

Following the use of these compounds, equipment and utensils must be thoroughly washed and rinsed with potable water before being returned to a processing area.

**K2** – Solvents for cleaning electronic instruments.

These compounds are chemically acceptable for cleaning electronic instruments and devices that will not tolerate aqueous cleaning solutions. Before using these compounds, food products and packaging materials must be removed from the area or carefully protected. These compounds must be used in a manner so that all odors associated with the compound are dissipated before food products or packaging materials are re-exposed in the area.

**K3** – Solvents for removing adhesives/glues

These products are acceptable for removing adhesive or glue from food packaging materials in and around food processing areas, where its use is not intended for direct food contact. Before using these compounds, food products and packaging materials must be removed from the area or carefully protected. After using these compounds, all surfaces must be thoroughly washed with an acceptable detergent solution and rinsed with potable water. This compound must be used in a manner so that all odors associated with the compound are dissipated before products or packaging materials are re-exposed in the area.

### P. Compounds Requiring Letter Indicating Authorized Use

**P1** – Miscellaneous

Compounds listed in this category are to be used in accordance with the conditions set forth in the letter of acceptance. Copies of the acceptance letter must be supplied to federal inspectors as proof of the acceptable use(s) of the compound.
# Chesterton NSF® Registered Products

Visit NSF.org/USDA/Listings for all Registered Chesterton Products

## Cleaner and Degreaser Products

<table>
<thead>
<tr>
<th>Product Description</th>
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<th>FDA</th>
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</thead>
<tbody>
<tr>
<td>235 SSC</td>
<td>133964</td>
<td>A4</td>
</tr>
<tr>
<td>273 Electric Motor Cleaner</td>
<td>133975</td>
<td>K2</td>
</tr>
<tr>
<td>273 Electric Motor Cleaner (aerosol)</td>
<td>133976</td>
<td>K2</td>
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<tr>
<td>274 Industrial Degreaser</td>
<td>133955</td>
<td>C1, K1, K2</td>
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<tr>
<td>274 Industrial Degreaser (aerosol)</td>
<td>133949</td>
<td>C1, K1, K2</td>
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<td>276 Electronic Component Cleaner (aerosol)</td>
<td>133973</td>
<td>K2</td>
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<td>276 Electronic Component Cleaner (bulk)</td>
<td>133974</td>
<td>K2</td>
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<tr>
<td>277 Metal Surface Degreaser (aerosol)</td>
<td>134008</td>
<td>C1, K1</td>
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<td>277 Metal Surface Degreaser (bulk)</td>
<td>134007</td>
<td>C1, K1</td>
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<td>279 PCS</td>
<td>134012</td>
<td>K2</td>
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<td>292 Precision Degreasing Solvent</td>
<td>134003</td>
<td>K1, K2, K3</td>
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<td>292 Precision Degreasing Solvent (aerosol)</td>
<td>134004</td>
<td>K1, K2, K3</td>
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<td>294 Critical Surface Degreaser</td>
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<tr>
<td>296 Electro Contact Cleaner</td>
<td>134002</td>
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<tr>
<td>338 Super Rust Remover</td>
<td>160030</td>
<td>A3</td>
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<tr>
<td>346 Descaler and Chemical Cleaner</td>
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<td>360 Phosphate-Free Cleaner</td>
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## Lubricant Products

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<tbody>
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<td>601 Chain Drive Pin and Bushing Lubricant (aerosol)</td>
<td>133927</td>
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<td>601 Chain Drive Pin and Bushing Lubricant (bulk)</td>
<td>133979</td>
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<td>610 Synthetic Lubricating Fluid (aerosol)</td>
<td>133972</td>
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<td>615 HTG #1</td>
<td>133941</td>
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<td>615 HTG #2</td>
<td>133940</td>
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<td>615 HTG #2-460</td>
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<td>622 White Grease</td>
<td>133929</td>
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<td>625 CXF</td>
<td>138414</td>
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<td>629 High Temperature White Grease</td>
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<td>3500 Valvelon™</td>
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<tr>
<td>715 Spraflex®</td>
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<td>715 Spraflex® Gold</td>
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<td>787 Sliding Paste</td>
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<td>800 GoldEnd® Tape</td>
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<tr>
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<td>860 Moldable Polymer Gasketing Curing Agent</td>
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## Metalworking Fluids Products

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## Corrosion Protection Products

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<tr>
<td>775 Moisture Shield (aerosol)</td>
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NSF International launched its voluntary Nonfood Compounds Registration Program in 1999 to reintroduce the previous authorization program administered by the U.S. Department of Agriculture (USDA). Products eligible for NSF registration include all compounds used in and around food establishments (nonfood compounds), such as disinfectants and lubricants, and those used for preprocessing of food proprietary substances, such as fruits/ Guidelines (formerly USDA Guidelines for Obtaining Authorization of Compounds to Be Used in Meat and Poultry Plants).
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

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