

FOOD, BEVERAGE & PHARMACEUTICAL

HIGH PERFORMANCE MRO CHEMICALS
INDUSTRY SOLUTIONS





**Chesterton's programs
are proven to:**

- Maintain the integrity of our products
- Optimize reliability
- Maximize up-time
- Extend equipment life
- Lower total cost

QUALITY

OUR STANDARDS ARE HIGH

The A.W. Chesterton Company is dedicated to maintaining the strictest quality standards when it comes to our food grade and pharmaceutical products. Our advanced technologies and stringent quality processes assure that we consistently meet your exact expectations. Our goal is to provide you with superior quality products delivered with outstanding customer service.



We worry about quality so you won't have to.



Most of our products are NSF® registered.

We have one of the most extensive ranges of products registered to NSF standards. This independent review assures the customer of consistent, high quality. NSF registration, combined with high performance, assures that our products offer the best results in improving equipment reliability, while lowering costs.

LUBRICANTS

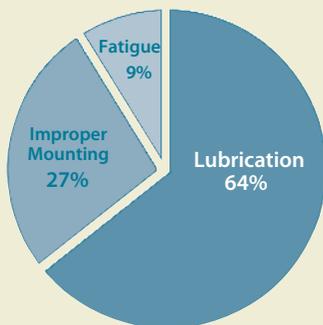
Improving Bearing Reliability



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
- Exceptional water and chemical washout resistance
- QBT™ Quiet Bearing Technology
- Automatic grease dispensing
- Reduced lubricant consumption

Primary Causes of Bearing Failure



64% 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 Technologies

Chesterton's industrial greases offer extended bearing life and reliability even under the harshest conditions of load, temperature, water, and corrosion.

625 CXF and 630 SXCF*

Superior quality, multi-purpose, food grade greases. **NSF H1**

- Exceptional bearing protection against wear, load, and corrosion
- Excellent water washout and corrosion protection
- Contains no PTFE. Safe for tobacco and other processing plants where PTFE is restricted

Applications: Bottling equipment, fruit feeders, paste and sauce fillers, canning machinery, meat packaging equipment, carton filling equipment.

615 HTG, 633 SXCM** and 635 SXC*

High-performance, corrosion inhibited greases. Outstanding extreme pressure capabilities and tolerance to water. **NSF H2**

- Excellent water washout and corrosion resistance
- High shear and oxidative stability
- Temperature limits above 204°C (400°F)

Applications: Machine tools, mechanical presses, high-speed spindle gears, blowers, conveyors, grinding mills, crushers, electric motors. Easily pumpable in automatic grease-dispensing systems.

*Synthetic-based

**Contains Moly

Automatic Single Point Lubricators

Automatically dispense Chesterton grease to critical areas, eliminating over- and under-greasing.

Lubri-Cup™ EM

- Microprocessor controlled, "pulse" delivery system
- Replaceable service packs
- Lubricates up to 8 bearings



Lubri-Cup™ VG – 250cc Lubri-Cup™ VG Mini – 120cc

- Microprocessor controlled, "pulse" delivery system
- Nitrogen gas operated unit
- Variable timer



Lubri-Cup™ S

- Low feed pressure prevents bearing seal failure
- Increases time interval for regreasing by six times
- Simple to refill in place





Extending Equipment Life

Chesterton offers a range of lubricants specifically formulated for lubricating chains, pneumatic controls, wire ropes, and open gears. Chesterton's lubrication programs are proven to extend equipment life, improve reliability and productivity, and reduce costs, while maintaining the high quality standards required.

601 Chain Drive Pin and Bushing Lubricant

Premium, low viscosity oil that penetrates to the pin and bushing to provide critical lubrication and wear resistance. **NSF H2**

- -23°C to 150°C (-10°F to 300°F)
- Keeps chains clean—does not collect dirt and dust
- Extends chain life 2 to 4 times

Applications: Chain drives for assembly and packaging lines, power transmission chains, conveyer drives, chain hoists, fork lift trucks.

636 FG SLG-220 Synthetic Lubricating Fluid

636 FG is an ISO grade 220, high performance, synthetic lubricant. It is NSF H1-registered, and specifically designed for high temperature bearing and chain lubrication throughout the food, beverage and pharmaceutical industries. **NSF H1**

- -25°C to 260°C (-13°F to 500°F)
- Low evaporation
- No residue formation
- Self cleaning

Applications: High temperature lubrication such as baking ovens, heat sealing machines, sterilization areas, conveyor roller bearings, chain conveyors, heat treating conveyors, plastic film sealing.

660 Silicone Lubricant

A clear, silicone fluid that provides continuous film lubrication for mechanical parts and sliding surfaces that are constructed of plastic, rubber or plastic/metal. **NSF H1**



- -40°C to 205°C (-40°F to 400°F)
- Does not stain or leave gummy residue
- Stable, long-lasting lubricant
- Excellent release agent

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

690 FG Lubricant

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, no color or odor
- Pressure additives—three times greater load carrying ability compared to mineral oil
- No dirt and dust buildup in chains, no sticky lubricant residues
- Long lasting and non-drying film extends chain life two to four times

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



715 Spraflex® Gold

A surface lubricant for chain drives, open gears, and wire rope. Bonds a long lasting, non-extruding “wear shield” to protect equipment operating under heavy loads. **NSF H2**

- Lubricates under extreme pressure
- Does not squeeze off like grease
- Protects against corrosion
- Does not wash off, even under water

Applications: Chain drives, open gears, hoists, wire ropes and cables, rotary feeders, conveyor chains.



CLEANERS & DEGREASERS

Maintaining Plant Equipment



Chesterton offers a broad range of cleaners and degreasers to maintain the plant and equipment. The choice of cleaning technology depends on the soil to be removed, surface material, and environmental and worker safety considerations. As such, we provide a range of technologies to meet the individual needs for:

- Maintenance shop degreasing and cleaning
- Machinery and plant cleaning
- Parts degreasing
- Electrical cleaning

Water-Based Cleaners

Biodegradable, rapid oil separation, can be filtered, recirculated

360 Phosphate-Free Cleaner

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

- Biodegradable and phosphate-free
- No EDTA, Butyl Cellosolve™, or toxic solvents

Applications: Removing natural oils and greases from process equipment, plant walls, and floors. Cleaning waste water treatment piping and treatment tanks. Especially effective for porous concrete structures.

803 IMS II

A powerful, non-solvent based degreaser. Its advanced surfactant technology offers maximum efficiency in soil removal. **NSF A1**

- Fast removal of petroleum oil and grease
- Biodegradable
- No EDTA, Butyl Cellosolve™ or toxic solvents

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



KPC 820/KPC 820N

Powerful performance with environmental compliance and worker safety. The ideal choice for process degreasing. **KPC 820 – NSF A1, KPC 820N – NSF A1, A4**

- Moderate pH, phosphate-free
- Safe on most metals
- No offensive odor
- Effective for dip tank cleaning when heated
- May be used up to 82°C (180°F)

Applications: Oil deposits, soot and exhaust residue, metal working fluids, animal and vegetable fats, lubricants, and soils common to industrial production areas

Solvent-Based Degreasers

Fast-acting, low aromatics, low residue, precision degreasing

277 Metal Surface Degreaser

Fast evaporating, solvent-based degreaser for hard surfaces. Removes oil, grease, tar, wax, and other organic soils. **NSF C1, K1**

- Low residue
- Low aromatic content
- Does not damage most materials, including common plastics
- Flash point: -6°C (21°F)

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



292 Precision Degreasing Solvent

Moderate evaporation rate. Industrial strength solvent blend cleans equipment instantly before disassembly, maintenance, and repair. Safe for all metals. Flash point 40°C (105°F). **NSF K1, K2, K3**

- Fast removal of heavy oil and grease
- Low residue, low odor
- Low aromatic content

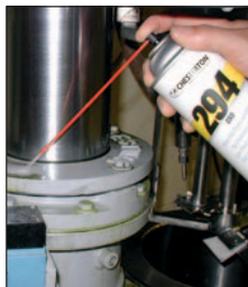
Applications: Cleaning bearings, valves and fittings, chains, cables, molds, lathes, presses, non-energized electrical equipment, and production tools. Removes oil, grease, wax, tar, and other organic soils. Test before using on rubber and plastics.

294 CSD

Safe, fast evaporating, solvent-based degreaser cleans the most difficult deposits. Designed for precision cleaning.

- Rapid cleaning
- Low aromatic content
- Flash point: -18°C (-4°F)

Applications: Precision cleaning of bearings, pulleys, valves and fittings, chains, cables, electromechanical assemblies, molds, presses, production tools, and finished parts. Test before using on some paint, rubber, and plastics.



Electrical Cleaners

Safe for most paints and plastics, low residue, fast evaporating

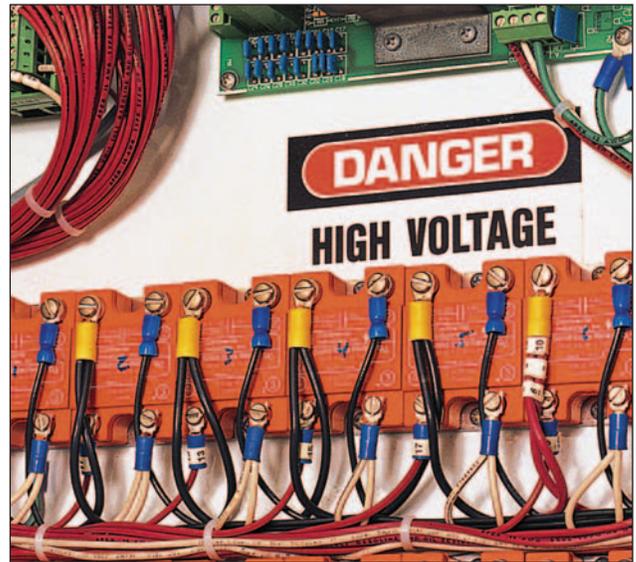


296 Electronic Component Cleaner (ECC)

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

- Non-flammable, fast evaporating
- No residue
- No ozone depleting chemicals
- No plastic attack

Applications: Controllers, panel meters, circuit boards, contacts, motorized instruments, and control panels. Compatible with virtually all sensitive materials common to the electronics industry.



MAINTENANCE SPECIALTIES



Products for Daily Maintenance

Daily maintenance often requires the use of many different products. They are used in small quantities, but are critical to performing high quality, fast turnarounds. Maintenance Specialties are a group of products designed to provide superior performance the first time, resulting in improved productivity and quality in your maintenance operations.

723 and 723FG Sprasolvo®

Fast acting, penetrating oil in 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 – NSF H2;**
723FG – NSF H1

Applications: Plumbing, machinery, trucks, pipelines, railroads, tractors, steam and gas fittings, valves, pumps, drilling utilities, auto shops, ships.



730 Spragrip®

Superior energy efficient belt dressing in a convenient aerosol package. Lengthens life of leather, rubber, canvas, or plastic belts. Ends belt slippage for all V, flat, and round belts. **NSF P1**

Applications: Belt drives, fans, automotive equipment, industrial equipment, package conveyors, conveyor belts, generators, pumps, compressors, indoor or outdoor applications. Controls belt slippage due to moisture, dust, heat, or cold. Prevents degradation from U.V. rays, chemical fumes, and water.



3500 Valvelon®

Permanently seals valves up to a stuffing box cross section of 12 mm (1/2 in). Conforms to surface shape to seal. Pressure up to 35 kg/cm² (500 psi). **NSF P1**

- 100% PTFE valve packing
- pH 0-14, all chemicals, except oxygen
- -240°C to 260°C (-400°F to 500°F)
- Nontoxic, non-contaminating

Applications: Utility system valves such as water, compressed air, vacuum, lubrication lines, hot water, steam. Also for process valves in food, pharmaceutical, and virtually all industries. It is ideal as a general purpose valve packing.

785/785 FG/783ACR



The “new generation” anti-seize compound family contains a blend of ultra fine, inorganic solid lubricants. No heavy metals. Withstands severe temperature and pressure conditions. Eases mechanical assembly and disassembly up to 1204°C (2200°F). **785 FG** conforms to FDA standard 21CFR Incidental Food Contact.

NSF H1; 785 – NSF H2

- Prevents bolt seizure for easy disassembly
- Ultra-fine solid lubricants stick to the metal surface
- 785FG has the unique combination of an H1 registered with industrial grade antiseize performance.

Applications:

Virtually all metal to metal assemblies: Bolts, screws, studs, pipe threads, press fits, pump sleeves, splines. Virtually all plant maintenance involving stainless steel and specialty alloys. Applicable where copper use is prohibited.

Food and Beverage: Meat, poultry, dairy processing plants, beverage, brewery and bottling plants, grain processing, oil and ethanol processing, canning and packaging facilities, water treatment, wastewater and water distribution systems.

800 GoldEnd® Tape

Heavy duty, high density, tear resistant, moldable, dry PTFE sealant tape for use on metal or plastic threads, pipes, or bolts. Requires fewer wraps. Resists tearing, breakage, and won't clog fuel lines. Meets MIL-T-27730A; DVGW; BAM; **NSF H1, P1**



- Use in virtually all chemicals, including oxygen
- -240°C (-400°F) to 260°C (500°F)
- Adjustable up to 90° backwards and still seals

Applications: Seals all plumbing and most industrial piping threads, pneumatic and hydraulic fittings up to 690 bar (10,000 psi).

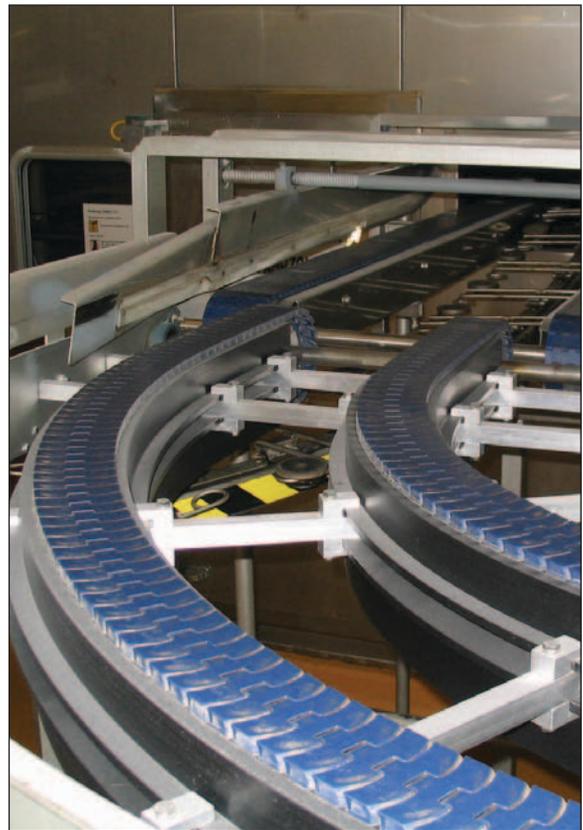
860 Moldable Polymer Gasketing

Two-part, extrudable gasketing material allows for the creation of ultra-thin gaskets in any size, any shape. Never sticks. Conforms to FDA standard 21CFR 175.300 and 177.2600. **NSF P1**

- Up to 260°C (500°F)
- Stable, no hardening in tip
- Gap filling up to 6 mm (1/4 in)
- Remains elastic



Applications: For sealing complex mechanical assemblies, gear boxes, inspection covers, transmissions, bearing housings, speed differentials. Economical, reduces gasket inventories. Molds to any shape flange. No more gasket cutting.



MAINTENANCE SPECIALTIES

Corrosion Protection

Corrosion can attack spare parts in storage, making them no longer useable. This is a waste of time and money. Chesterton offers two removable coatings designed for cost effective protection of critical replacement parts. Both are thin films that provide extended corrosion protection, but can be quickly removed when the metal part is needed.

740 Heavy Duty Rust Guard



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

- Does not crack or peel
- Protection up to 2 years
- Excellent resistance to corrosive vapors

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

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

775 Moisture Shield

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

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

Applications: Parts in process, parts in transit, parts in storage, electrical systems—dries out wet electrical parts, marine industry. Easily removable with Chesterton's water- or solvent-based cleaners.

Note: Where long term protection is desired use Chesterton's 740 Heavy Duty Rust Guard.



Metal Working Fluids

Provides optimum lubrication for metal cutting operations combined with the safety of water-based, synthetic technology. No petroleum oil, no smoking, easy to rinse off with water.



388 Synthetic Tapping Fluid

Safe, full synthetic formula for machining operations performed at high speed and feed rates, as well as manual or automatic single-shot cutting tool applications.

- Ready to use
- Excellent lubricity and heat dissipation
- Extends tool life

Applications: Tapping, boring, reaming, threading, drilling, milling. May be used in mist applicators.

389 Synthetic Tapping Compound

- Non-drip, clinging grade
- Ideal for horizontal or overhead operations

Chesterton NSF® Registered Products

Cleaners/Degreasers

218 HDP	133943	A1
235 SSC	133964	A4
273 Electric Motor Cleaner	133975	K2
273 Electric Motor Cleaner (aerosol)	133976	K2
274 Industrial Degreaser	133955	C1, K1, K2
274 Industrial Degreaser (aerosol)	133949	C1, K1, K2
276 Electronic Component Cleaner (aerosol)	133973	K2
276 Electronic Component Cleaner (bulk)	133974	K2
277 Metal Surface Degreaser (aerosol)	134008	C1, K1
277 Metal Surface Degreaser (bulk)	134007	C1, K1
279 PCS	134012	K2
292 Precision Degreasing Solvent	134003	K1, K2, K3
292 Precision Degreasing Solvent (aerosol)	134004	K1, K2, K3
296 Electro Contact Cleaner	134002	K2
346 Descaler & Chemical Cleaner	133962	A3
360 Phosphate-Free Cleaner	133961	A1, A4
801 Industrial & Marine Solvent	133965	A1, A4, A8
803 Industrial & Marine Solvent II	133966	A1
815 Low Foaming Cleaner	133967	A1
KPC 820	133963	A1
KPC 820N	133977	A1, A4

Lubricants

601 Chain Drive Pin & Bushing Lubricant (aerosol)	133927	H2
601 Chain Drive Pin & Bushing Lubricant (bulk)	133979	H2
610 Synthetic Lubricating Fluid (aerosol)	133972	H2
610 Synthetic Lubricating Fluid (bulk)	133971	H2
615 High Temperature Grease	133940	H2
615 HTG #1	133941	H2
622 White Grease	133929	H1
625 CXF	138414	H1
629 High Temperature White Grease	133936	H1
630 SXCF aerosol	142462	H1
630 SXCF	138415	H1
636 FG SLG-220 (bulk)	<i>approval in process</i>	H1
651 Detergent Lubricating Oil (aerosol)	133928	H2
651 Detergent Lubricating Oil (bulk)	133946	H2
660 Silicone Lubricant (aerosol)	133970	H1
660 Silicone Lubricant (bulk)	133932	H1
690 FG Lubricant (aerosol)	133933	H1
690 FG Lubricant (bulk)	133969	H1

For the most current listings and full descriptions of the category codes please visit:

www.NSF.org/usda/psnclistings.asp

Maintenance Specialties

3500 Valvelon®	134013	P1
706 Rustsolvo®	133942	H2
710 Anti-Seize Compound (bulk)	133958	H2
715 Spraflex®	133938	H2
715 Spraflex® (aerosol)	133934	H2
715 Spraflex® Gold	133930	H2
715 Spraflex® Gold (aerosol)	133931	H2
723 FG Sprasolvo®	134006	H1
723 Sprasolvo®	133939	H2
725 Nickel Anti-Seize Compound	133959	H2
730 Spragrip®	133947	P1
785 FG Parting Lubricant	132237	H1
785 Parting Lubricant	133960	H2
787 Sliding Paste	133956	H2
800 GoldEnd® Tape	134016	H1, P1
860 Moldable Polymer Gasketing (cartridge)	134017	P1
860 Moldable Polymer Gasketing Curing Agent	134018	P1
900 GoldEnd® Paste	133957	H2, P1

Metal Working Fluids

390 Cutting Oil	134014	H2, P1
390 Cutting Oil (aerosol)	134947	H2, P1
395 Tapping Lubricant	133935	H2

Corrosion Protection

415 Concrete Sealer	134009	R2
438 PTFE Coating (aerosol)	133950	H2
438 PTFE Coating (bulk)	133951	H2
775 Moisture Shield (aerosol)	134015	H2

NSF International launched its voluntary Nonfood Compounds Registration Program in 1999 to re-introduce 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 pre-processing of food proprietary substances, such as fruits/vegetables washing agents. NSF Registration is based on the NSF Registration Guidelines (formerly USDA Guidelines for Obtaining Authorization of Compounds to Be Used in Meat and Poultry Plants).

This program provides product manufacturers, users, and regulatory/inspector groups with a proven method to determine product acceptability. This program complements food processing equipment certification and NSF's food safety evaluations.

CHESTERTON

Protective Coatings Resistant to Bacterial Contamination, Abrasion, Chemical Attack, and Slip and Fall Exposures



Concrete and cement block construction surfaces in food and beverage facilities are constantly exposed to aggressive chemical attack from caustic cleaning agents, animal blood and fat, organic acids, as well as abrasive wear from motorized carts. To further complicate matters, all surfaces must be able to be adequately sealed to prevent bacterial growth and to ease cleaning and decontamination. Often there is an additional requirement for slip-resistant surfaces to provide safe work areas for personnel.

Chesterton's ARC and PF&L brands of reinforced epoxy, urethane, polyester, and vinyl ester coatings can meet all of these demands.



We offer:

- Penetrating primer sealers
- Trowelable and pourable grouts
- Low viscosity barrier coatings
- Slip resistant coatings
- High build trowelable overlays

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



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

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NSF® is a registered trademark of NSF International.

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