

# MRO CHEMICALS

INDUSTRIAL LUBRICANTS, CLEANERS,  
METAL WORKING FLUIDS  
AND MAINTENANCE SPECIALTIES



## Quality Products, Industry Solutions and Superior Services...

The A.W. Chesterton Company was established on the Boston, Massachusetts waterfront in 1884. Today, Chesterton manufactures products that are stocked, sold and serviced by highly trained Chesterton Specialists in more than 97 countries worldwide. We are dedicated to learning the specific requirements of your application in order to tailor recommendations and help you achieve your expected results.

Chesterton's extensive network provides the best applications assistance and service available throughout the process and manufacturing industries. The local, trained Chesterton Specialist, field and product managers, as well as factory support staff are dedicated to worldwide ultimate Customer Care.



*For EMEA  
Application Engineering:*  

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*For North America and  
Worldwide Customer Service  
and Application Engineering:*  

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All statements in this catalog pertaining to pressure, chemical compatibility, temperature, and service ratings are based on general service experience. Because of the wide variety of applications of our products, the broad range of products available, and the wide range of equipment conditions encountered, together with the unpredictable human factors involved in the installation of these products by the ultimate user, we do not encourage reliance on recommendations shown without specific prior service experience.

Specific data on materials, construction methods, installation and troubleshooting procedures are subject to change without notice.

For the reasons indicated, the A.W. Chesterton Company makes no warranties, expressed or implied, that products described are guaranteed for any length of time, for any measure of service, or for any specific purpose.

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## OVERVIEW

*Chesterton offers products and total system solutions for production process, facility, and maintenance needs.*

- INDUSTRIAL LUBRICANTS
- CLEANERS AND DEGREASERS
- MAINTENANCE SPECIALTIES
- METAL WORKING FLUIDS
- CORROSION CONTROL

*State-of-the-art technologies, environmentally acceptable alternatives and strict quality processes contribute to fulfilling the customers' expectations:*

**Increased productivity**

**Lowered costs**

**Reduced disposal and labor costs**

*In partnership with our worldwide distribution channels and factory-trained local specialists, Chesterton offers superior value, outstanding customer service, technical support and delivery.*

*In these pages you will find an overview of our technical products. For in-depth, individual product information, ask your local Chesterton Specialist for our informative product data sheets.*

*Efficiency, performance and productivity today... tomorrow... always!*





# INDUSTRIAL LUBRICANTS





## MOLY GREASE

*Long lasting multi-purpose, extreme pressure grease; fortified with molybdenum disulfide to handle challenging applications ranging from -18°C to 138°C (0°F to 280°F).*

### PRODUCT CHARACTERISTICS

Contains inhibitors protect lubricated equipment  
Excellent resistance to water washout  
Saves cost of replacement parts  
Prolongs the life of parts and machinery



### APPLICATIONS

Conveyors  
Mining equipment  
Plain and anti-friction bearings  
Cams  
Guides  
Ways  
Slides  
Electric motors  
Fans  
Blowers  
Pumps  
Generators  
Presses and shears  
Ideal for equipment subject to extra pressures, and shock loading vibration at start-up or during operation

CONTAINER SIZE	REORDER NUMBER
613	
400 Gram	089409
18 Kilogram	089407

## HTG #1, #2, #2-460

*High-performance, corrosion inhibited grease with outstanding extreme pressure capabilities and excellent water washout resistance. Temperature limit -40°C (-40°F) to 204°C (400°F).*

*The 615 HTG #2-460 is based on a heavier ISO 460 base oil and is designed for use on slower moving heavily loaded bearings.*

### PRODUCT CHARACTERISTICS

Superior water resistance  
Excellent corrosion protection  
Compatible with most popular greases  
Exceptional shear resistance  
Dropping point 288°C (550°F)  
NSF Registered  
QBT™ Quiet Bearing Technology  
Will not bleed or age harden  
Outstanding extreme pressure and temperature characteristics  
HTG #1 is easily pumpable in automatic grease dispensing systems



### APPLICATIONS

#### High water environment plants

Pulp and paper mills  
Mining operations  
Transportation  
Coal and ore processing  
Construction  
Metal fabrication  
Steel mills

#### Industrial and marine

Conveyors  
Grinding mills  
Crushers  
Bearings  
Shears  
Blowers  
Rolling mills  
Traveling cranes  
Mechanical presses  
Cams  
Toggle joints  
Guides  
Ways  
Slides

CONTAINER SIZE	REORDER NUMBER
615 HTG #1	
400 Gram	086935
18 Kilogram	086936
55 Kilogram	086007
180 Kilogram	080725

CONTAINER SIZE	REORDER NUMBER
615 HTG #2	
400 Gram	080042
18 Kilogram	080043
55 Kilogram	080045
181 Kilogram	080728

CONTAINER SIZE	REORDER NUMBER
615 HTG #2-460	
400 Gram	084204
18 Kilogram	084205
181 Kilogram	084190

**622**

## WHITE GREASE

*Superior quality, multi-purpose, H1 food grade lubricant, clean, pure mineral oil.*



### PRODUCT CHARACTERISTICS

NSF Registered H1  
Resistant to water, steam, caustics and cleaning agents  
Virtually colorless, odorless, tasteless  
Complies with sections 178.3570 and 177.1550, of FDA food additives regulations  
Dropping point 260°C (500°F)



### APPLICATIONS

#### Food industry

Bottling equipment  
Fruit feeders  
Paste and sauce fillers  
Canning machinery  
Meat packaging equipment  
Carton filling equipment

#### General

Valves  
Pistons  
Pumps  
Conveyor belts  
Rollers  
Machinery  
Slides  
Guides

CONTAINER SIZE	REORDER NUMBER
----------------	----------------

622	
400 Gram	085312
900 Gram	085314
18 Kilogram	085304
55 Kilogram	085335

**629**

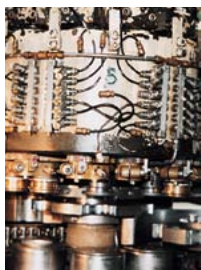
## HIGH TEMPERATURE WHITE GREASE

*High temperature, premium quality, pure mineral oil and PTFE fortified grease. Offers excellent resistance to water, steam, caustics and other cleaning agents.*



### PRODUCT CHARACTERISTICS

Chemically stable, non-reactive with metal, rubber and plastics  
Virtually colorless  
Odorless  
Tasteless  
Complies with sections 178.3570 and 177.1550, of FDA food additives regulations  
Smooth tacky texture  
Adheres to metal  
NSF Registered  
Dropping point over 260°C (500°F)



### APPLICATIONS

Processing and packaging machinery  
Slides  
Guides  
Anti-friction bearings  
Grease lubricated chains  
Bottle and carton filling machines  
Paste and sauce fillers  
Conveyor belts  
Rollers  
Canning machinery  
Any moving parts of equipment processing clean materials or packages

CONTAINER SIZE	REORDER NUMBER
----------------	----------------

629	
400 Gram	081127
18 Kilogram	081128
55 Kilogram	081187



625

## CXF



*High-performance, corrosion inhibited grease with outstanding extreme pressure capabilities and excellent water washout resistance. 625 is NSF Registered H1 and complies with FDA regulations 178.3570. Temperature limit -30°C (-22°F) to 204°C (400°F).*

### PRODUCT CHARACTERISTICS

- NSF Registered H1
- 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



### APPLICATIONS

- Food, pharmaceutical, beverage industries
- Pharmaceutical processing and packaging machines
- Bottling equipment
- Fruit feeders
- Paste and sauce fillers
- Canning machinery
- Meat packaging equipment
- Carton filling equipment

CONTAINER SIZE	REORDER NUMBER
625	
400 Gram	088548
18 Kilogram	088549
55 Kilogram	088550
180 Kilogram	088551

630

## SXCF



*High-performance, corrosion inhibited grease with outstanding extreme pressure capabilities and excellent water washout resistance. 630 is synthetic based, and offers superior high temperature stability and resistance to steam and cleaning chemicals. 630 is NSF Registered H1 and complies with FDA regulations 178.3570. Temperature limit -40°C (-40°F) to 240°C (464°F).*

### PRODUCT CHARACTERISTICS

- NSF Registered H1
- 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



### APPLICATIONS

- Food, pharmaceutical, beverage industries
- Pharmaceutical processing and packaging machines
- Bottling equipment
- Fruit feeders
- Paste and sauce fillers
- Canning machinery
- Meat packaging equipment
- Carton filling equipment

CONTAINER SIZE	REORDER NUMBER
630	
Aerosol	088687
400 Gram	088552
18 Kilogram	088553
55 Kilogram	088554
180 Kilogram	088555

633

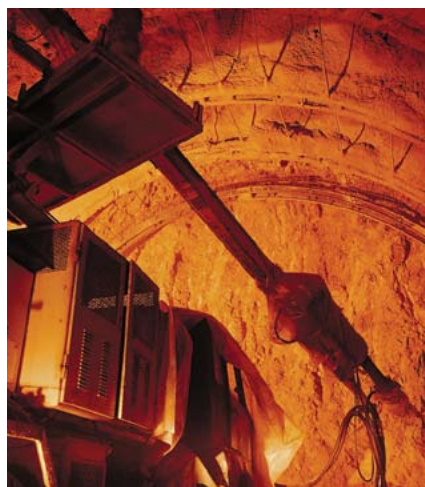
## SXCM

*High-performance, corrosion inhibited grease with outstanding extreme pressure capabilities and excellent water washout resistance. 633 is synthetic based with MoS<sub>2</sub>, and offers superior high and low temperature stability and resistance to steam and corrosive chemicals. Temperature limit -50°C (-58°F) to 250°C (482°F).*



### PRODUCT CHARACTERISTICS

- Superior water washout resistance
- Excellent corrosion protection
- Compatible with most popular greases
- Exceptional shear resistance
- Anti-oxidants prevent hardening or crystallization
- Dropping point 288°C (550°F)
- QBT™ Quiet Bearing Technology



### APPLICATIONS

- Pulp and paper mills
  - Mining operations
  - Transportation
  - Coal and ore processing
  - Construction
  - Metal fabrication
  - Steel mills
- Industrial and marine**
- Heavy off road machines
  - Conveyors
  - Grinding mills
  - Crushers
  - Bearings
  - Shears
  - Blowers
  - Rolling mills
  - Traveling cranes

### CONTAINER SIZE REORDER NUMBER

CONTAINER SIZE	REORDER NUMBER
633	
400 Gram	088560
18 Kilogram	088563
55 Kilogram	088564

635

## SXC

*High-performance, corrosion inhibited grease with outstanding extreme pressure capabilities and excellent water washout resistance. 635 is synthetic based, and offers superior high temperature stability and resistance to steam and corrosive chemicals. Temperature limit -40°C (-40°F) to 240°C (464°F).*



### PRODUCT CHARACTERISTICS

- 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



### APPLICATIONS

- Pulp and paper mills
  - Mining operations
  - Transportation
  - Coal and ore processing
  - Construction
  - Metal fabrication
  - Steel mills
- Industrial and marine**
- Ovens
  - Hot process fluid systems
  - Fans
  - Conveyors
  - Grinding mills
  - Crushers
  - Bearings
  - Shears
  - Blowers
  - Rolling mills
  - Traveling cranes

### CONTAINER SIZE REORDER NUMBER

CONTAINER SIZE	REORDER NUMBER
635	
400 Gram	088556
18 Kilogram	088557
55 Kilogram	088558
180 Kilogram	088559



**601**

## CHAIN DRIVE PIN & BUSHING LUBRICANT



*Premium quality light oil, penetrates between the close clearance of chain drive bushings and pins to provide critical lubrication. The lubricant of choice in the industry for over 30 years.*

### PRODUCT CHARACTERISTICS

Rapid penetration  
Pressure additives increase load carrying ability at start up stresses  
No dirt and dust build up in chains  
No sticky lubricant residues  
Corrosion inhibiting properties  
Extends chain life 2 to 4 times  
Long lasting, non-drying film  
NSF Registered



### APPLICATIONS

Chain drives  
for assembly lines  
Conveyors  
Packaging equipment  
Hoist chains  
Link and roller assemblies  
Forklift trucks  
Tractors  
Machinery  
Chain saws  
Robotic equipment  
lubricant

CONTAINER SIZE	REORDER NUMBER
----------------	----------------

601	
Aerosol	081902
1 Gallon/3.8 Liter	081904
20 Liter	081910
208 Liter	081907

**610**

## SYNTHETIC LUBRICATING FLUID

**610HT**

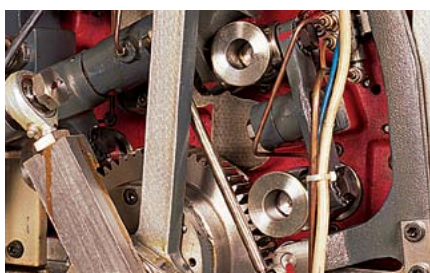
*Premium quality 100% synthetic fluid cleans as it lubricates over a wide temperature range of -25°C to 270°C (-13°F to 518°F).*

**610MT Plus**

### PRODUCT CHARACTERISTICS

Self cleaning  
No residue  
Non-carbonizing  
NSF Registered  
Low evaporation rate  
High flash point  
Good flowability for low temperature applications to -25°C (-13°F)  
610MT Plus and 610HT higher viscosities, reducing dripping, recommended for chains operating continuously over 180°C (356°F)  
Viscosity, ISO VG

610	68
610MT Plus	220
610HT	460



### APPLICATIONS

**On equipment operating in elevated temperatures, refrigerated areas and in severe environments**

Oven chains  
Anti-friction bearings  
Gearboxes  
Conveyor roller bearings  
Chain conveyors  
Drying ovens  
Ceramic ovens  
Heat treating conveyors  
Electric motors  
Fans  
Plastic extrusion equipment  
Plastic film forming  
Textile tenter frames

CONTAINER SIZE	REORDER NUMBER
----------------	----------------

610	
Aerosol	089411
1 Gallon/3.8 Liter	089415
20 Liter	089414
208 Liter	089424

CONTAINER SIZE	REORDER NUMBER
----------------	----------------

610HT	
1 Gallon/3.8 Liter	083765
20 Liter	080418
208 Liter	080419

CONTAINER SIZE	REORDER NUMBER
----------------	----------------

610MT Plus	
20 Liter	082852
208 Liter	082853

636

## FG SLF-220



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

### PRODUCT CHARACTERISTICS

- Self-Cleaning
- No Residue
- Non-Carbonizing
- NSF Registered H1
- Low Evaporation rate
- High Flash point
- Temperature Range -25C to >260C (-13F to 500F)



### APPLICATIONS

- High temperature lubrication such as:
- Baking ovens
  - Heat sealing machines
  - Sterilization areas
  - Conveyor roller bearings
  - Chain conveyors
  - Heat treating conveyors
  - Plastic film sealing

#### CONTAINER SIZE REORDER NUMBER

Aerosol	084128
20 Liter	084129
208 Liter	084127

651

## DETERGENT LUBRICATING OIL



All purpose, light duty lubricant with active detergent additives to clean, penetrate, lubricate, and prolong the life of all types of parts and equipment.

### PRODUCT CHARACTERISTICS

- Cleans as it lubricates
- Will not build-up
- Penetrates close tolerances
- Cleans old sludge and gumming
- Ideal for high speed industrial bearings
- NSF Registered
- Safe and easy to use
- Reduces maintenance and replacement parts cost



### APPLICATIONS

- General**
- Pneumatic equipment
  - Electric motors
  - Chronometers
  - Amplifiers
  - Machine shops
  - Instrument repair shops
  - Boiler rooms
  - Assembly lines
  - Bearings
  - Linkages
  - Lever
  - Hinges

### NOTE

For chain drive applications Chesterton's 601 Chain Drive Pin & Lubricant may also be used

#### CONTAINER SIZE REORDER NUMBER

Aerosol	081102
20 Liter	081111
208 Liter	081107



652

## PNEUMATIC LUBRICANT & CONDITIONER

*High performance, low viscosity formulation reduces up to 90% of pneumatic maintenance costs, decreases downtime and rejects. Cleans, protects and prolongs the life of pneumatic equipment.*

### PRODUCT CHARACTERISTICS

Will not cause sludge build-up  
 NSF Registered  
 Conditioners prevent seals and O-rings from drying out  
 Significantly reduces power consumption  
 Prolongs life of air tools  
 Cleans rust, sludge and dirt from all air tools as it lubricates

### APPLICATIONS

Air tools  
 Cylinders  
 Air line lubricators  
 Air impact wrenches  
 Air hammers  
 Air drills  
 Air grinders  
 Production air systems  
 CNC machines  
 Robotics  
 Assembly line tools



CONTAINER SIZE	REORDER NUMBER
652	
475 Milliliter	086888
1 Gallon/3.8 Liter	080447
20 Liter	086000
208 Liter	083018

660

## SILICONE LUBRICANT

*Clean, clear, colorless food-grade lubricant for plastics, rubber, and food processing equipment that works where petroleum oils won't.*

### PRODUCT CHARACTERISTICS

Broad temperature range  
 -40°C (-40°F) to 205°C (401°F)  
 NSF Registered H1  
 Complies with sections 178.3570, 181.28 and 178.3910 of FDA food additives regulations  
 Makes surfaces water-resistant  
 Non-staining, fire-resistant, non-toxic  
 Penetrates fine tolerances  
 Long-lasting

### APPLICATIONS

Plastic to plastic, plastic to metal, and rubber to metal lubrication  
**Food processing**  
 Plastic gears  
 Rollers  
 Cams  
 Hinges  
 Slides  
 Bearing mixers  
 Conveyors  
**Other**  
 High-speed injection molding  
 Medical and pharmaceutical equipment  
 Rubber gasketing  
 Sliding doors



CONTAINER SIZE	REORDER NUMBER
660	
Aerosol	081502
1 Gallon/3.8 Liter	081504
20 Liter	081519
208 Liter	081506

## 662FG

## BARRIER FLUID

*662 FG is an ISO grade 22, high performance lubricant specifically designed as a barrier fluid for mechanical seals. We now offer a complete Chesterton solution—mechanical seal, barrier fluid tank, and barrier fluid.*



### PRODUCT CHARACTERISTICS

#### Ultra clean for long seal face life:

Ultra clean barrier fluid—extremely low particle count designed to minimize face wear and extend seal life  
ISO 4406 particle count 14/12/10

#### Food grade (FG)—minimize contamination concerns:

NSF H1 registered, incidental food contact  
FDA: Conforms to FDA 21 CFR 178.3620 a & b 178.3570

#### Good thermal stability:

Minimize carbon formation and resulting seal clogging and hang up  
Maintains seal face lubrication  
Viscosity: < 4 cSt (ISO 22) at 100°C, ideal for convectional heat transfer

#### Cost Effective:

Long term stability minimizes replacement seal and fluid costs

#### Compatibility:

Compatible with most fluids (mineral oil, PAO, and diester: not miscible with glycols or silicones)



### APPLICATIONS

Mechanical seal  
barrier fluid  
For high temperatures, above 120°C (250°F) use 610 Synthetic Fluid

CONTAINER SIZE	REORDER NUMBER
662FG	
20 Liter	081088
208 Liter	081089

## 690FG

## LUBRICANT

*Cost effective, high quality, multi-purpose, non-staining penetrating lubricant. USDA authorized for incidental food contact and meets FDA standards.*



### PRODUCT CHARACTERISTICS

Clear, colorless, odorless  
Complies with section CFR 178.3620 of FDA food additives regulations  
High flash point, 171°C (340°F)  
Safe and easy to use in bulk or aerosol  
NSF Registered H1



### APPLICATIONS

**Food industry**  
Bottle, canning and carton filling machines  
Paste and sauce fillers  
Fruit feeders  
Bakery equipment  
Mixers  
Metering pumps  
Chain drives  
Piston and valves  
Rollers

### NOTE

For food processing equipment and non-staining applications requiring a long lasting grease, use 622 White Grease or 629 High Temperature White Grease  
For food contact at higher temperature applications, use 660 Silicone Lubricant, up to 205°C (401°F)

CONTAINER SIZE	REORDER NUMBER
690FG	
Aerosol	082706
1 Gallon/3.8 Liter	082703
20 Liter	082710
208 Liter	082705



**710****ANTI-SEIZE COMPOUND**

*High temperature, extreme pressure, corrosion resistant anti-seize compound and assembly lubricant. Formulated blend of copper, aluminum, and graphite seals and protects metal parts.*

**PRODUCT CHARACTERISTICS**

- Eases disassembly up to 1100°C (2012°F)
- Meets MIL-A-907D
- Maintains electrical conductivity between surfaces
- On U.S. Navy qualified products list: QPL-907 NSF Registered
- Retards pitting
- Saves threads and parts for reuse by guarding against galling damage and breakage during opening

**APPLICATIONS**

- Refineries
- Steel Mills
- Mining
- Chemical and petroleum
- Utilities
- Vehicles/Transportation
- Marine
- Valves
- Threaded assemblies
- Press fit bushings
- Bearing fits
- Pump sleeves
- Forge presses
- Hydraulic equipment
- Heat exchangers
- Reactor towers

**NOTE**

Chesterton's 725 Nickel Anti-Seize Compound or 785 Parting Lubricant is recommended on stainless steel and in aggressive acid or alkaline environments

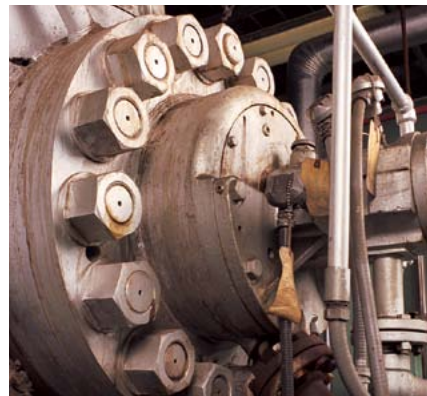
CONTAINER SIZE 710	REORDER NUMBER
500 Gram Brush Top	082309

**785****PARTING LUBRICANT****785FG**

*The "new generation" anti-seize compound contains a blend of ultrafine, inorganic solid lubricants in a non-carbonizing, ashless synthetic carrier. Withstands severe temperature and pressure conditions.*

**PRODUCT CHARACTERISTICS**

- Provides excellent protection of metal components under extreme conditions
- Eases disassembly up to 1204°C (2200°F)
- Fills in microscopic voids
- No toxic heavy metals
- For extreme pressure up to 4730 kg/cm<sup>2</sup> (67,570 psi)
- Safer than traditional metallic based anti-seizes
- Non-carbonizing
- Usable under most extreme conditions
- No need for torque tension recalculation
- NSF Registered

**APPLICATIONS**

- Power plants
- Boiler rooms
- Steel mills
- Oil refineries
- Marine applications
- Chemical plants
- Automotive industry

**General**

- Bolts
- Screws
- Studs
- Pipe threads
- Press fits
- Pump sleeves
- Splines

CONTAINER SIZE 785	REORDER NUMBER
Aerosol	081664
200 Gram Tube	086907
250 Gram Brush Top	082016
500 Gram Brush Top	080747
24 Kilogram	080748

CONTAINER SIZE 785FG	REORDER NUMBER
200 Gram Tube	088506
500 Gram Brush Top	080788

**725**

## NICKEL ANTI-SEIZE COMPOUND

**772**

*A high performance, nickel based anti-seize. Combines the extreme pressure, corrosion resistant anti-seize abilities of colloidal nickel, in an oil suspension that can withstand temperatures up to 1425°C (2597°F).*



### PRODUCT CHARACTERISTICS

Water resistant; ultra fine particles  
Eases mechanical assembly and disassembly up to 1425°C (2597°F)  
Balanced coefficient of friction eliminates torque recalculations  
Guards against galling and corrosion protects against self-welding  
Meets MIL-A-907F  
Withstands extreme pressure  
NSF Registered  
Applicable where copper use is prohibited



### APPLICATIONS

Automotive  
Chemical industries  
Foundries  
Utilities  
Refineries

### Mechanical assembly of

Bolts, studs, flanges, pressfits, valve stems, pump sleeves, screws, bushings, gaskets, bearings, etc.

### Use on

Steel  
Stainless steel  
Iron  
Aluminum  
Copper  
Brass  
Titanium

### CAUTION

Should not be used on oxygen systems



CONTAINER SIZE 725	REORDER NUMBER
Aerosol	082351
250 Gram Brush Top	081266
500 Gram Brush Top	082359
20 Liter	082349

CONTAINER SIZE 772 PREMIUM NICKLE ANTI-SEIZE	REORDER NUMBER
500 Gram Brush Top	082381

**783**

## ACR

*783 combines high performance industrial anti-seize performance with extreme corrosion protection and water washout resistance. 783 is ideal where the primary cause of bolt seizure is corrosion.*

### PRODUCT CHARACTERISTICS

Provides excellent protection of metal components under extreme conditions  
Extreme corrosion protection and water washout resistance  
Eases disassembly up to 900°C (1652°F)  
Fills in microscopic voids  
No toxic heavy metals  
For extreme pressure up to 8928 kg/cm<sup>2</sup> (127,000 psi)  
Safer than traditional metallic based anti-seizes  
Usable under most extreme conditions



### APPLICATIONS

Marine  
Offshore oil platforms  
Chemical plants  
Waste water  
Mining industry  
Metal Fabrication  
Pulp and Paper

### General

Bolts  
Screws  
Studs  
Pipe threads  
Press fits  
Pump sleeves  
Splines

CONTAINER SIZE 783	REORDER NUMBER
250 Gram Brush Top	082805
500 Gram Brush Top	088653
500 Gram Open Top	088771
20 Liter Pail	088654



# 715

## SPRAFLEX®/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.*

### PRODUCT CHARACTERISTICS

- Non-drip
- Self adhering, flexible lubricant
- Water resistant
- Resistant to acid fumes
- Guards against rust and corrosion
- Resists extrusion
- NSF Registered
- Replaces lubricant at every revolution

### APPLICATIONS

- Chain drives
- Open gears
- Hoists
- Wire ropes and cables
- Textile equipment
- Paper making machinery
- Debarking drums
- Dams and lock gates
- Drag lines
- Rotary kilns/dryers
- Rotary feeders
- Conveyor chains

### NOTE

Use Chesterton's 715 Spraflex Gold where a clean, non-staining film is needed



CONTAINER SIZE	REORDER NUMBER
715	
Aerosol	081702
20 Liter	081709
208 Liter	081707

CONTAINER SIZE	REORDER NUMBER
715-GOLD	
Aerosol	082015
1 Gallon/3.8 Liter	081896
20 Liter	081897
208 Liter	081898

# 787

## SLIDING PASTE

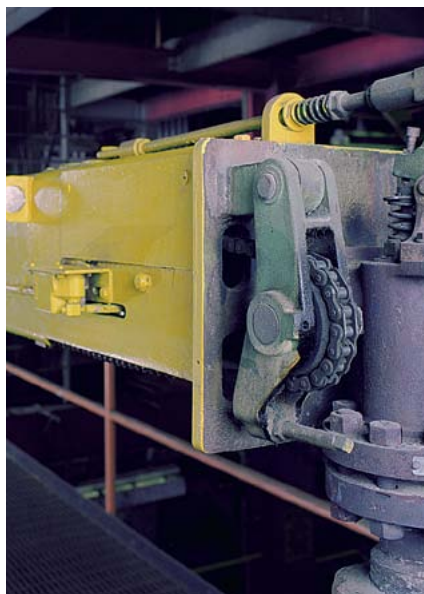
*A semi-solid, pure synthetic base, high performance, extreme pressure lubricant. Leaves a solid lubricating film long after other lubricants have disappeared, without varnishing, up to 538°C (1000°F).*

### PRODUCT CHARACTERISTICS

- Pure, non-carbonizing synthetic base
- Lubricates at pressures to 10687 kg/cm<sup>2</sup> (152,000 psi)
- Excellent water washout resistance
- Non-fling, clinging lubricant
- Low coefficient of friction
- Low environmental impact
- Fortified with graphite and molybdenum disulfide
- NSF Registered

### APPLICATIONS

- Smelting
- Forging
- Metal refining
- Chemical plants
- Petrochemical plants
- Foundries
- Other**
- Wire ropes
- Crane cables
- Railroad switch gear
- Open gears
- Rack and pinion tracks



CONTAINER SIZE	REORDER NUMBER
787	
500 Gram Brush Top	086803
1 Gallon/3.8 Liter	086805
20 Liter	086806



# CLEANERS AND DEGEASERS





# CLEANING PROPERTIES

## WATER BASED – Alkali, pH 7 – 14

*Petroleum oil and grease*  
*Natural oils/Greases – animal, plant, fish*  
*Dust/Dirt carbon black*

## Chesterton Products

218 HDP  
235 SSC  
360 Phosphate-Free Cleaner  
801 Industrial  
& Marine Solvent  
803 Industrial  
& Marine Solvent II  
820 KPC

## WATER BASED – Acid, pH 0 – 7

*Inorganic deposits*  
*Hardwater*  
*Etch and clean concrete*  
*Metal oxides – rust, aluminum oxide*

## Chesterton Products

338 Super Rust Remover  
346 Descaler  
& Chemical Cleaner

## SOLVENT BASED – Petroleum

*Petroleum oil and grease*  
*Adhesives*  
*Rubbers*  
*Mold release*  
*Paints/Coatings*  
*Plastics*

## Chesterton Products

274 Industrial Degreaser  
276 Electronic  
Component Cleaner  
277 Metal Surface Degreaser  
292 Precision Degreasing Solvent  
294 CSD

## SOLVENT BASED – Halogenated

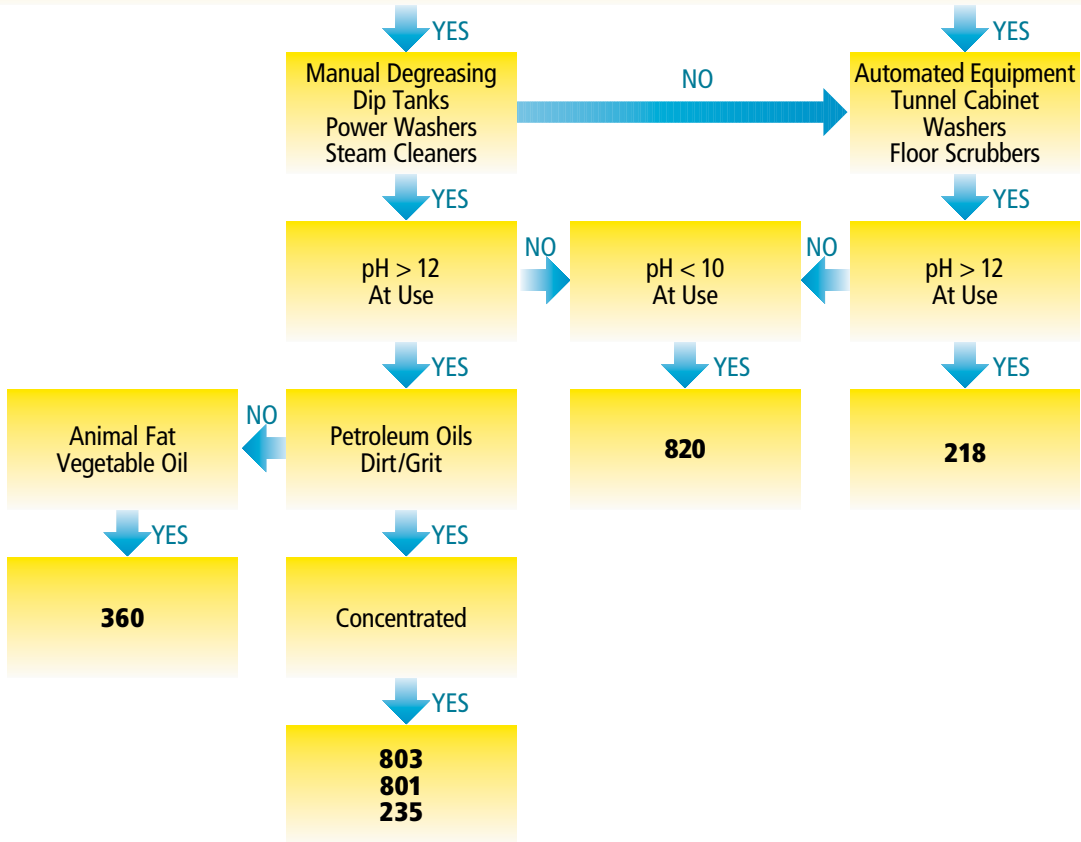
*Energized electrical equipment*  
*Electric motors*  
*Electrical controls*  
*Difficult organic soils*

## Chesterton Products

273 Electric Motor Cleaner  
279 PCS  
296 Electro Contact Cleaner

# AQUEOUS CLEANERS/DEGREASERS

## ALKALINE CLEANERS/DEGREASERS



# 218

## HDP



*Heavy duty, concentrated, virtually non-foaming, liquid alkaline degreaser. Designed with the environment in mind, yet it handles tough degreasing applications.*

### PRODUCT CHARACTERISTICS

- Excellent rinsability
- Corrosion inhibited
- No silicones
- Non-flammable
- No hazardous powder dust
- No toxic solvents
- No phosphates
- Can be used in food plants
- No EDTA
- NSF Registered
- Dye and fragrance free



### APPLICATIONS

- Spray booth washers
- Floor scrubbers
- High pressure washers
- Steam cleaning equipment

### NOTE

Chesterton's 218 HDP can be used up to 82°C (180°F)

CONTAINER SIZE	REORDER NUMBER
20 Liter	083001
208 Liter	083002



235

## SSC

*Powerful cleaner removes oily and greasy deposits, waxes, loose paint and heavy soils. Specially formulated for steam cleaning equipment.*

### PRODUCT CHARACTERISTICS

- Additives retard scale build-up and clogging of steam cleaning equipment
- Water based
- Concentrated
- Highly dilutable
- Biodegradable
- Non-flammable
- Contains strong alkalis, emulsifiers and surfactants
- No irritating fumes
- NSF Registered

### APPLICATIONS

#### General

- Concrete
- Masonry
- Equipment (all types)

#### Pulp and Paper

- Papermaking machines

#### Textile

- Clothing machinery

### CAUTION

- Should not be used on aluminum or metals sensitive to high alkalinity
- When using on painted surfaces, test small area for compatibility



CONTAINER SIZE	REORDER NUMBER
20 Liter	080032
208 Liter	080033

360

## PHOSPHATE-FREE CLEANER

*Especially effective for the food industry on animal fats and vegetable oils; a versatile, industrial cleaner for environmentally sensitive areas.*

### PRODUCT CHARACTERISTICS

- Environmentally friendly
- Removes inorganic and light to medium organic soils
- Saponifies animal fat and vegetable oil
- High stable foam
- Biodegradable
- Non-flammable
- Solvent-free
- NSF Registered
- Approved by USCG
- Water soluble
- Highly concentrated
- Highly dilutable

### APPLICATIONS

#### Food industry

- Federally inspected meat and poultry plants
- Food processing equipment
- Bottling machines
- Wax and grease removal from vents, stoves, hoods and drains

#### Waste water treatment

- Floors
- Pump stations
- Sludge removal
- Fungi removal

#### Marine

- Decks, Hulls, Bilges

#### Industrial

- Floors, walls, vinyl tiles
- Concrete
- Machines
- Machine shop tools
- Gutters

### CAUTION

- Do not use on aluminum



CONTAINER SIZE	REORDER NUMBER
20 Liter	083603
208 Liter	083607
1000 Liter	086562

**801**

## INDUSTRIAL & MARINE SOLVENT

*Industrial strength, multi-purpose water based degreaser.*



### PRODUCT CHARACTERISTICS

- Concentrated
- Wide dilution range
- Non-flammable
- Biodegradable
- Stable, clinging foam
- NSF Registered
- Approved by USCG
- Economical, efficient



### APPLICATIONS

#### Machine shop/ Maintenance

Removes cutting oils from parts prior to inspection, assembly and shipping

#### Marine

Removes rot, mildew and fungi from hulls

#### Food industry

- Food processing equipment
- Ventilation hoods/fans
- Floors/drains

### CAUTION

Do not use on metals sensitive to attack by alkaline materials

CONTAINER SIZE  
801

REORDER NUMBER

20 Liter

083202

208 Liter

083205

**803**

## INDUSTRIAL & MARINE SOLVENT II

*A powerful, non-solvent based degreaser. Its advanced surfactant technology offers maximum efficiency in soil removal, especially applications where solvent use is required.*

### PRODUCT CHARACTERISTICS

- Effective for industrial cleaning dust, dirt, carbon black petroleum based oils
- Phosphate-free
- Biodegradable
- Free of Butyl Cellosolve†
- No EDTA
- Free of toxic solvents
- Concentrated
- Highly dilutable
- Tough on viscous, heavy soils
- Non-flammable
- No irritating fumes
- Can be used hot or cold
- Compatible with pressure washers and steam cleaners
- NSF Registered

† Registered trademark of Union Carbide Corporation



### APPLICATIONS

#### Pulp and paper industry

Cleaning production equipment

#### Chemical/ Oil processing

Production facilities

#### Food industry

- Concrete floors
- Masonry walls
- Engine blocks
- Railroad equipment
- Farm implements
- Construction equipment and other hard surfaces

### CAUTION

Should not be used on aluminum or metals sensitive to high alkalinity  
When using on painted surfaces, test small area for compatibility

CONTAINER SIZE  
803

REORDER NUMBER

1 Gallon/3.8 Liter

086774

20 Liter

090379

208 Liter

090388

1000 Liter Tote

086768



820

# KPC

820N

Balances powerful performance with environmental compliance and worker safety, the ideal choice for process degreasing.

### PRODUCT CHARACTERISTICS

- Moderate pH
- Low residue
- No harsh alkalis
- Phosphate-free
- Non-flammable
- Non-toxic
- Biodegradable
- Highly dilutable
- Safe on most metals
- NSF Registered
- No offensive odor
- Effective for dip tank cleaning when heated to 82°C (180°F)
- No Butyl Cellosolve<sup>†</sup> or 2-butoxyethanol
- No EDTA

<sup>†</sup> Registered trademark of Union Carbide Corporation



### APPLICATIONS

#### Quickly and efficiently removes

- Oil deposits
- Soot and exhaust residue
- Metal working fluids
- Animal and vegetable fats
- Lubrication compounds
- Soils common to industrial production areas
- Optimum results when using ultrasonic machines, may be heated to 82°C (180°F) to enhance cleaning

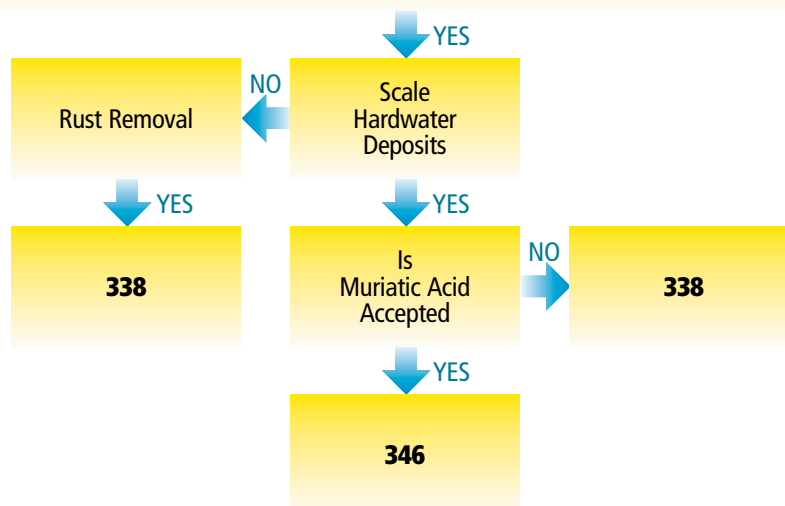
CONTAINER SIZE 820	REORDER NUMBER
20 Liter	082260
208 Liter	082264
1000 Liter Tote	083555

CONTAINER SIZE 820N**	REORDER NUMBER
20 Liter	088584
208 Liter	088585

\*\*USA Formulation

## ACID CLEANERS/DEGREASERS

### ACID CLEANERS



## SUPER RUST REMOVER

*Removes rust from ferrous metals, corrosion from aluminum, brightens copper, brass, stainless steel, and zinc quickly and safely.*

### PRODUCT CHARACTERISTICS

Highly concentrated, acid based  
 Can be used on all metals  
 Removes metal oxide layer  
 Brightens non-ferrous metals  
 Leaves metal paint ready  
 Inhibited to protect base metals  
 Biodegradable  
 Water based  
 Non-flammable  
 Rinses clean with water  
 Short term corrosion protection coating



### APPLICATIONS

#### General

Metal prefinishing  
 of vehicle bodies  
 Chassis  
 Appliances  
 Machined parts  
 Machine tool frames  
 Sheet metalwork

#### Maintenance

Restores rusted  
 inventories  
 Nuts/Bolts  
 Threaded assemblies  
 Internal corrosion  
 Shafts  
 Cast housings

CONTAINER SIZE	REORDER NUMBER
20 Liter	085904
208 Liter	085907

## DESCALER & CHEMICAL CLEANER

*Strong, acid based multi-use liquid formulated with metal protecting inhibitor for a wide range of applications.*



### PRODUCT CHARACTERISTICS

Biodegradable  
 Water based  
 Non-flammable  
 Dissolves rust and scale  
 while protecting base surface  
 Concentrated hydrochloric base  
 Versatile  
 Efficient  
 Economical, saves on labor,  
 maintenance costs and fuel consumption  
 NSF Registered



### APPLICATIONS

**Removes hard water build-up, lime scale and corrosion from**  
 Steam boiler tubes  
 Condenser water systems  
 Water circulating equipment

#### General

Etches concrete  
 Cleans stained concrete  
 Removes cement build-up from equipment

### CAUTIONS

Not effective on grease, oil and common soil  
 Not for use on aluminum, painted enamel, stainless steel or decorative metals

### NOTE

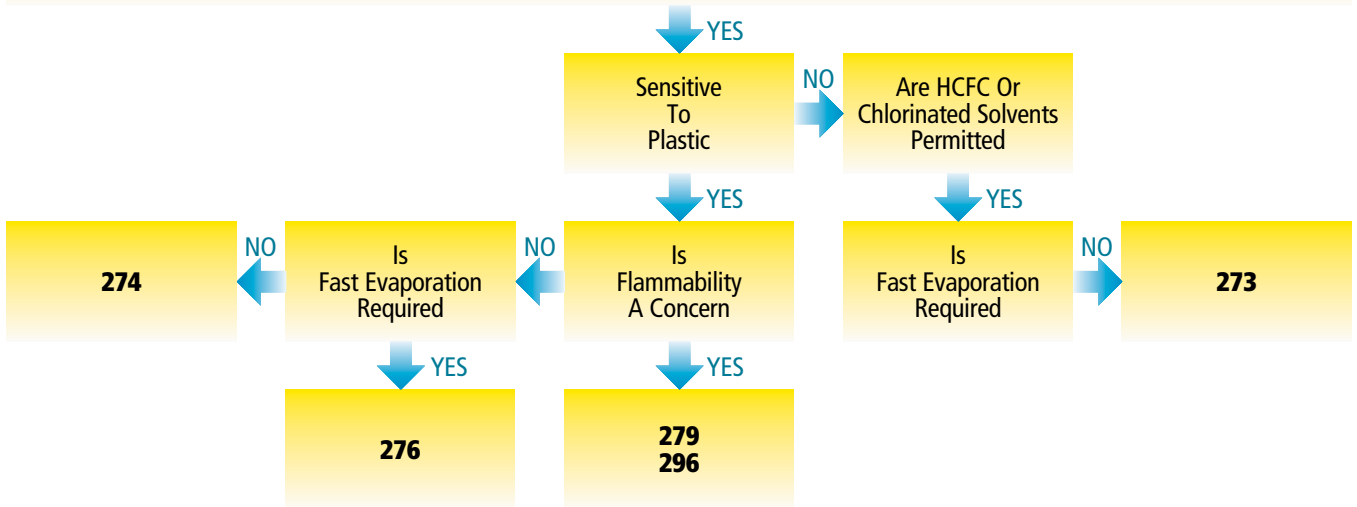
For detailed application instructions please refer to the product data sheet

CONTAINER SIZE	REORDER NUMBER
20 Liter	088403
208 Liter	088407

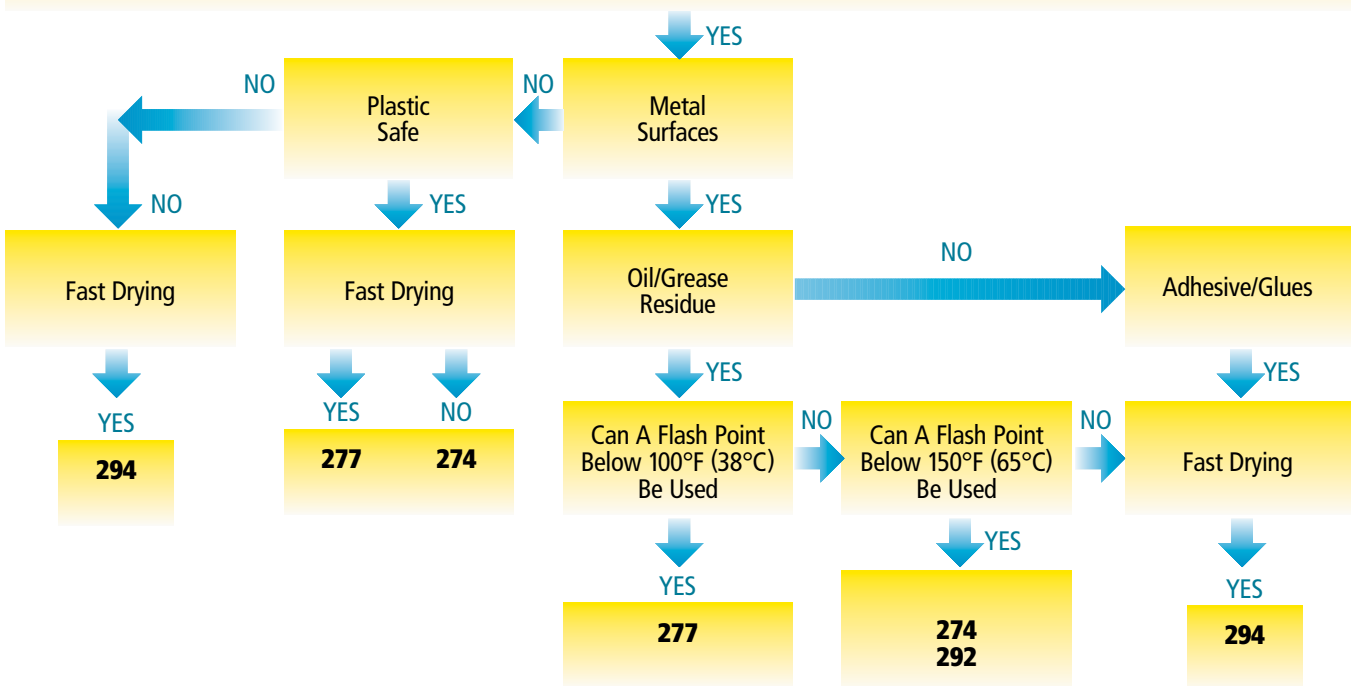


# SOLVENT CLEANERS/DEGREASERS

## ELECTRONIC CLEANING/DEGREASING



## MECHANICAL CLEANING/DEGREASING



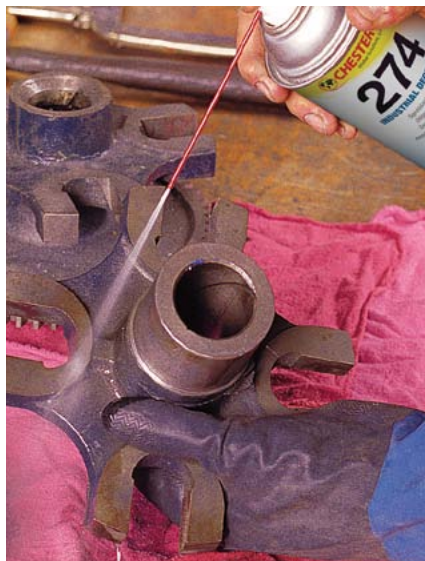
## INDUSTRIAL DEGREASER

*An industrial and marine environment, hard surface degreaser.*



### PRODUCT CHARACTERISTICS

Dissolves petroleum oil, grease, tar and other inorganic soils  
Does not corrode metals  
Low evaporation rate, results in reduced consumption and replacement  
Low odor  
Low aromatic content  
High flash point  
Does not attack most paints and plastics  
Safe for use on all metals  
Fast penetrating action  
NSF Registered



### APPLICATIONS

Metal production shops  
Paint shops  
Boiler rooms  
Repair shops  
Ship yards  
Maintenance shops  
Dip tanks  
Hard surfaces  
Machined parts  
Recirculating and agitated parts washer  
Metal parts  
Equipment

CONTAINER SIZE	REORDER NUMBER
274	
Aerosol	081676
1 Gallon/3.8 Liter	081278
20 Liter	081006
208 Liter	081013

## CSD

*A fast acting, general purpose industrial degreaser engineered to reduce the time consumed on mechanical maintenance operations and costly downtime.*



### PRODUCT CHARACTERISTICS

Fast evaporation  
No residue  
Safe on all metals  
Safe on most plastics, rubbers and coatings – test prior to use  
Low aromatic content  
No HCFC, CFC, TCE, n-PBr  
Removes dust, dirt, oil and other industrial soils  
Dissolves resins, polymers, adhesives and petroleum residues  
Flash point (ASTM D 93, DIN 51 755) <math>-18^{\circ}\text{C}</math> (<math><0^{\circ}\text{F}</math>)



### APPLICATIONS

Chains and cables  
Gear boxes  
Dies and molds  
Bearings  
Air tools  
Pneumatic tools  
Fork lifts  
Brakes and clutches  
Material handling equipment  
Parts and tools

### CAUTION

294 CSD should not be used on energized electrical equipment or near ignition sources.

CONTAINER SIZE	REORDER NUMBER
294	
Aerosol	080783



**276**

## ELECTRONIC COMPONENT CLEANER

*Fast evaporating, high performance, solvent based degreaser containing no ozone depleting solvents.*



### PRODUCT CHARACTERISTICS

Fast evaporation rate  
Low residue  
Non chlorinated  
Safe for use on all metals  
No ozone depleting materials  
NSF Registered



### APPLICATIONS

#### Spray cleaning

Switches  
Controllers  
Panel meters  
Circuit boards  
Contacts  
Levers  
Control panels

#### Hard surface degreasing

Equipment  
Motors  
Non-energized electrical equipment  
Parts in process

CONTAINER SIZE	REORDER NUMBER
276	
Aerosol	081622
20 Liter	081623
208 Liter	081624

**277**

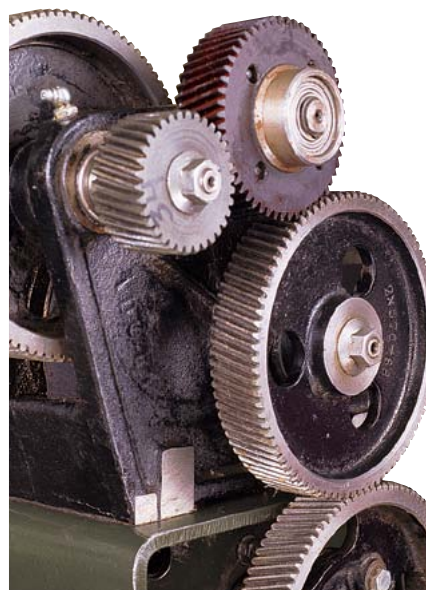
## METAL SURFACE DEGREASER

*A fast acting, low residue, non-chlorinated industrial strength degreaser designed to penetrate oils, greases and other soils.*



### PRODUCT CHARACTERISTICS

Fast evaporating degreaser  
Safe for use on all metals  
Low aromatic content  
Strong flushing action  
Removes dust, dirt, oil and other industrial soils  
Low residue  
No ozone depleting chemicals or suspected carcinogens  
NSF Registered



### APPLICATIONS

#### General

Roller bearings  
Slides  
Hinges  
Valves and fittings  
Motors  
Chain drives/Sprockets  
Moving mechanisms  
Delicate precision instruments  
Parts in process  
Equipment

CONTAINER SIZE	REORDER NUMBER
277	
Aerosol	083236
20 Liter	083432
208 Liter	083433

**273**

## ELECTRIC MOTOR CLEANER

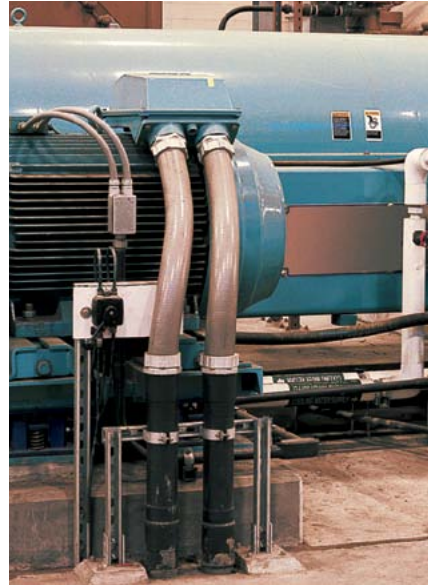
*Removes grease, sludge, dirt from motors and electrical equipment while operating up to 240 volts. One of the few such products classified by Underwriters Laboratories as non-flammable.†*



### PRODUCT CHARACTERISTICS

- Non-flammable
- Effectively degreases electric motors while operating up to 240 volts
- High dielectric strength
- Non-conductive
- Non-corrosive
- NSF Registered
- Removes heavy and light oil and grease and organic residues
- Evaporates quickly, no residue

† Classified by Underwriters Laboratories, Inc., as to fire hazard only. Spray does not propagate flame. Deposited liquid residue is classified as non-flammable



### APPLICATIONS

- Electronic equipment
- Electric motors
- Fuse holders
- Blowers
- Fans
- Hoists
- Switches
- Transformers
- Cables
- Control panels
- Motor windings
- Circuit boards
- Electrical test equipment
- Motorized instruments

### NOTE

On plastic, paint or rubber, test small area prior to use  
Re-lubricate as necessary

CONTAINER SIZE	REORDER NUMBER
273	
Aerosol	080502
20 Liter	080514
208 Liter	080517

**279**

## PCS

*A clear, low-odor non-ozone depleting precision cleaning solvent. State-of-the-art HFE technology removes light oils, particulates, Krytox<sup>†</sup> grease, fluoropolymers and other contaminants from electrical and electronic contact and assemblies.*



### PRODUCT CHARACTERISTICS

- Non-flammable
- Fast evaporating
- Low residue
- Non-corrosive
- High purity
- High dielectric strength
- No ozone depleting potential
- No VOC's
- Replaces CFC-113
- Safe on plastic
- NSF Registered

† Krytox is a registered trademark of E.I. du Pont de Nemours



### APPLICATIONS

- Electronics**
  - Electrical/Electronic equipment
  - Motorized instruments
- Medical industry**
  - Medical devices
  - Oxygen lines and valves
- General**
  - Gyroscopes
  - Delicate instrumentation
- 279 Materials Compatibility**
  - All metals
  - Plastics
  - Elastomers

### NOTE

For the complete materials compatibility chart and product information, please consult 279's product data sheet or contact your local representative

CONTAINER SIZE	REORDER NUMBER
279	
Aerosol	083434



292

## PRECISION DEGREASING SOLVENT

*Fast evaporating, low odor, industrial strength solvent blend cleans equipment instantly before disassembly, maintenance and repair.*



### PRODUCT CHARACTERISTICS

- Flash point 41°C (105°F)
- Low citrus odor
- Low aromatic content
- Safe for all metals and most plastics
- Fast evaporation rate
- Removes oil, grease, wax, tar and other organic soils
- Replaces kerosene, mineral spirits, chlorinated solvents and naphtha based degreasers
- High Kb value
- Contains no ozone depleting substances
- Low residue
- NSF Registered



### APPLICATIONS

- Bearings
- Pulleys
- Valves and fittings
- Chains
- Cables
- Molds
- Lathes
- Presses
- Production tools
- Finished parts
- Non-energized electrical, equipment, motors, switches and controllers

### NOTE

- May attack some rubber and plastics. Test prior to use

CONTAINER SIZE	REORDER NUMBER
292	
Aerosol	080529
20 Liter	080563
208 Liter	080564

296

## ELECTRO CONTACT CLEANER\*

*New generation precision cleaning solvent designed to replace CFC-113, HCFC-141b and other ozone depleting materials.*

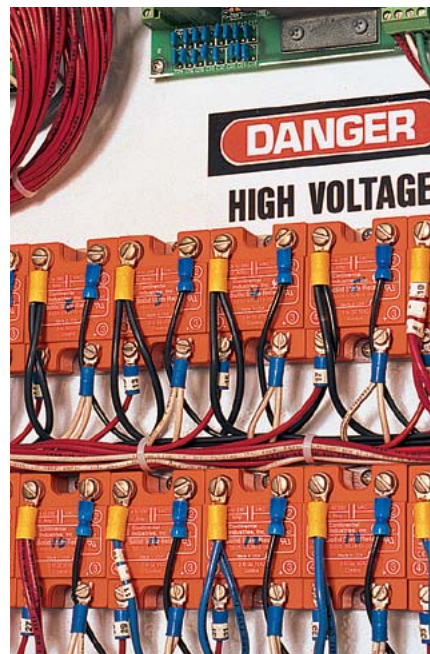


### PRODUCT CHARACTERISTICS

- Non-flammable
- No VOC's
- No ozone depleting potential
- Fast evaporating
- Safe on plastics
- Low residue, high purity
- Non-corrosive
- High dielectric strength
- Restores and improves electrical continuity on energized equipment
- Removes fluorinated lubricants
- NSF Registered



\*Not available in EME



### APPLICATIONS

- Switches
- Controllers
- Panel meters
- Circuit boards
- Contacts
- Levers
- Motorized instruments
- Medical devices
- Control panels

### Hard surface degreasing of

- Equipment
- Motors
- Parts in process

CONTAINER SIZE	REORDER NUMBER
296	
Aerosol (not available in bulk)	080631



# MAINTENANCE SPECIALTIES





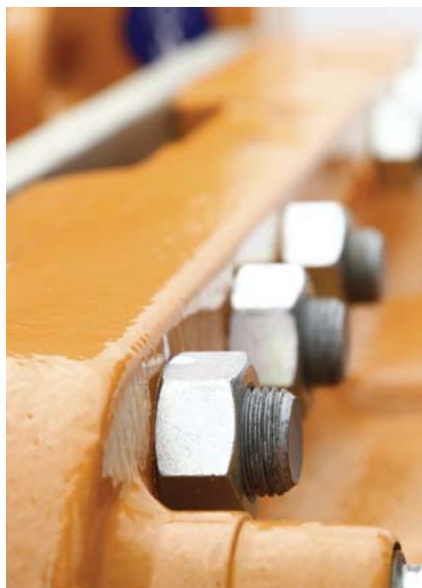
706

## RUSTSOLVO®

*High quality, fast acting, penetrating oil reaches inaccessible areas and frees frozen nuts, bolts, and fittings without damaging the base metal.*

### PRODUCT CHARACTERISTICS

Singular function  
 Safe on plastic and painted surfaces  
 Extremely low surface tension  
 NSF Registered  
 Contains no glycols, alcohols, DMSO (dimethylsulfoxide) or chlorinated solvents  
 Pleasant odor  
 No compromise – best possible penetration  
 Creeps into microscopic spaces  
 Chesterton Sprasolvo® is the same fast acting, penetrating oil in aerosol form



CONTAINER SIZE	REORDER NUMBER
706	
1 Liter	081310
20 Liter	081312
208 Liter	081307

### APPLICATIONS

**Use on all corroded or seized threaded assemblies**

- Plumbing
- Machinery
- Trucks
- Pipelines
- Railroads
- Tractors
- Steam and gas fittings
- Valves and Pumps
- Drilling utilities
- Auto shops
- Ships

### NOTE

Use Chesterton's 601 Chain Drive Pin & Bushing Lubricant when light lubrication is required and 775 Moisture Shield as a moisture displacing corrosion inhibiting coating

723

## SPRASOLVO®

723FG

*Fast acting, penetrating oil in a convenient. Excellent for hard to reach areas where rust, tar, grease and dirt may prevent easy removal of nuts, bolts and fittings.*

### PRODUCT CHARACTERISTICS

Singular function, pin point spray  
 Safe on plastic and painted surfaces  
 Extremely low surface tension  
 NSF Registered  
 723FG – Conforms to FDA standard 21CFR 172.884, 178.3620, 178.3650  
 Contains no acids or chlorinated solvents  
 Pleasant odor  
 No compromise – best possible penetration  
 Creeps into microscopic spaces



CONTAINER SIZE	REORDER NUMBER
723	
Aerosol	081308

CONTAINER SIZE	REORDER NUMBER
723FG	
Aerosol	083770

### APPLICATIONS

- Ships
- Drilling utilities
- Auto shops
- Railroads
- Pipelines
- Tractors
- Steam and gas fittings
- Trucks
- Machinery
- Valves
- Pumps

### NOTE

FG designates a Food Grade Product  
 Use Chesterton's 601 Chain Drive Pin & Bushing Lubricant when light lubrication is required and 775 Moisture Shield as a moisture displacing corrosion inhibiting coating

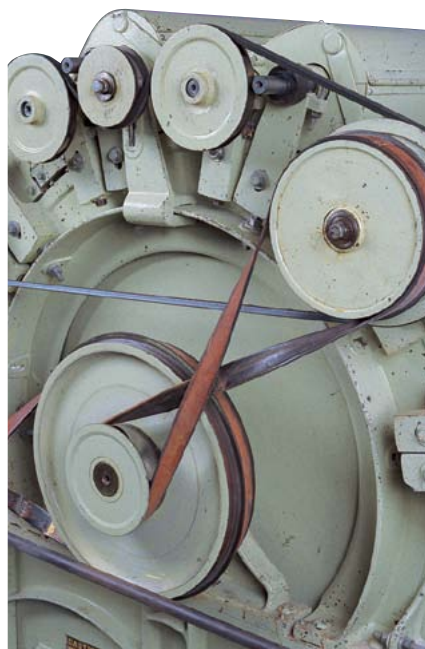
730

## 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.*

### PRODUCT CHARACTERISTICS

- Eliminates slippage
- No glazing or hardening
- Pin point spray
- Contains no rosin, asphalt, oil or aggressive solvents
- Saves energy, restores mechanical efficiency
- Non-staining
- NSF Registered
- Collects less dirt, no build-up
- Preserves belts in inventory
- Waterproofs and prevents slipping even under the most humid conditions



CONTAINER SIZE	REORDER NUMBER
730	
Aerosol	080308

### APPLICATIONS

- Belt drives
- Automotive equipment
- Industrial equipment
- Fans
- Package conveyors
- Conveyor belts
- Generators
- Pumps
- Compressors
- Indoor or outdoor applications
- Controls belt slippage due to moisture, dust, heat and cold
- Prevents degradation from U.V. rays, chemical fumes and water

800

## GOLDEND® TAPE

*Heavy duty, high density, tear resistant, moldable, dry PTFE sealant tape for use on metal or plastic threads, pipes or bolts.*

### PRODUCT CHARACTERISTICS

- Temperatures from -240°C (-400°F) to 260°C (500°F)
- Seals tightly and opens easily
- UL listed
- Meets MIL-T-27730A
- NSF Registered
- DVGW approval No. 96.01e907
- Acceptable for oxygen use
- Non-aging, non-hardening
- Chemically resistant
- Requires fewer wraps
- Resists tearing and breakage
- Won't clog fuel lines
- Adjust fittings without leakage



CONTAINER SIZE	REORDER NUMBER
800 - Metric	
6,4 mm x 13,72 M	000805
12,7 mm x 4,57 M	000801
12,7 mm x 13,72 M	000802
12,7 mm x 32,92 M	000803
19,1 mm x 13,72 M	000804
25,4 mm x 13,72 M	000806

CONTAINER SIZE	REORDER NUMBER
800 - Inch	
1/4" x 540"	000805
1/2" x 180"	000801
1/2" x 540"	000802
1/2" x 1296"	000803
3/4" x 540"	000804
1" x 540"	000806

### APPLICATIONS

#### Dry thread sealant for Liquids

- Steam, water, salt water
- air, fuels, refrigerants, acids, alkalies, all solvents

#### Gases

- Hydrogen, ammonia, oxygen, propane, butane, nitrogen

#### Other

- Seals all plumbing and most industrial piping threads
- Pneumatic and hydraulic fittings up to 690 bar (10,000 psi)

### CAUTION

- For nitric or mixed acid services, consult factory



## 860

# MOLDABLE POLYMER GASKETING

*Two-part, extrudable gasketing material allows for the creation of ultra-thin gaskets in any size, any shape. Never sticks.*



### PRODUCT CHARACTERISTICS

Economical; material costs less than compressed sheet gasketing  
 Won't harden in tip  
 Can withstand temperatures up to 260°C (500°F)  
 Excellent resistance to oils, water, chemicals and solvents  
 Steam to 6.8 kg/cm<sup>2</sup> (100 psi) and 170°C (338°F)  
 Never sticks to surfaces; disassembles cleanly  
 Fills voids and scratches, up to 6 mm (1/4 inch) deep  
 Remains elastic, won't shred and dog lines  
 NSF Registered  
 Conforms to FDA standard 21CFR 175.300 and 177.2600



### APPLICATIONS

#### For sealing complex mechanical assemblies

Gear boxes  
 Inspection covers  
 Transmissions  
 Bearing housings  
 Speed differentials

#### Sealing surfaces

Fittings, including thread fittings, hose clamps and o-ring fittings, and compression fittings  
 Oil sumps and reservoirs  
 Turbine casings  
 Electrical boxes  
 Vacuum systems

### CAUTION

Not for use in contact with concentrated acids or hot concentrated caustics

KITS	REORDER NUMBER
860	
Kit	086310
Toolbox kit	084883

## 900

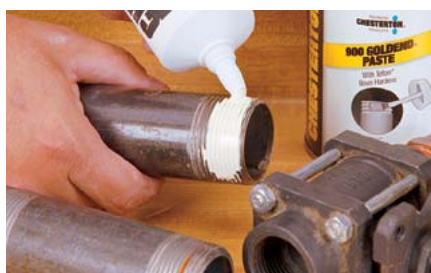
# GOLDEND<sup>®</sup> PASTE

*Non-hardening, non-corrosive, moldable PTFE thread sealant and lubricant for the most difficult of sealing demands on pipe joints, pneumatic fittings, and hydraulic line applications.*



### PRODUCT CHARACTERISTICS

Lubricates threads during assembly, seals tightly, opens easily  
 For use at temperatures up to 260°C (500°F)  
 Non-hardening  
 Non-corrosive  
 Non-toxic  
 No volatile solvents  
 NSF Registered  
 UL listed



### APPLICATIONS

#### Thread sealant and lubricant for Liquids

Water, salt water, fuels, refrigerants, acids, alkalis, solvents

#### Gases

Steam, air, propane, butane, nitrogen and ammonia\*\*

#### Other

Pneumatic and hydraulic fittings  
 Anti-seize sealing to 260°C (500°F)  
 Holds gasket in place during assembly

### NOTE

Not for use on liquid or gaseous oxygen

\*\* For nitric and mixed acid service, consult factory

CONTAINER SIZE	REORDER NUMBER
900	
200 Gram Tube	000908
250 Gram Brush Top	086852
500 Gram Brush Top	000909
20 Liter	000936

**3500****VALVELON®**

*Unique multi-layered, 100% PTFE anti-extrusion construction sealant conforms to surface shapes. Ideal for valve packing and flange gaskets, withstands a wide range of temperatures and seals virtually all chemicals.*

**PRODUCT CHARACTERISTICS**

Packs valves/Seals flanges  
 Dense, wrapped construction conforms to fill voids, making a tight seal without cold flow extrusion  
 Non-hardening  
 Non-toxic  
 Unlimited shelf life  
 Reduces stem valve packing and gasket inventories  
 Chemically inert  
 Wide temperature range  
 -240°C (-400°F) to 260°C (500°F)  
 High tensile strength  
 NSF Registered

**APPLICATIONS**

Generally all substances within a pH range of 0 to 14  
 Steam, salt water, air, refrigerants, sulfuric acid, hydrochloric acid, nitric acid, chromic acid  
 Sodium hydroxide, potassium hydroxide, kerosene, gasoline, perchloroethylene, hydrogen, ammonia, fluorinated solvents  
 Chlorine, propane, butane, nitrogen

**CAUTION**

Do not use on liquid or gaseous oxygen, molten alkali metals and some rare halogenated compounds

CONTAINER SIZE 3500-Metric	REORDER NUMBER
2,4 mm x 15,3 M	003566
4,0 mm x 10,7 M	003570
5,6 mm x 4,6 M	003574
7,1 mm x 2,7 M	003578

CONTAINER SIZE 3500-Inch	REORDER NUMBER
3/32" x 50'	003566
5/32" x 35'	003570
7/32" x 15'	003574
9/32" x 9'	003578

**989****RELEASE COMPOUND**

*A concentrated silicone release agent, formulated for use in mold applications operating at temperatures from 60°C (140°F) to 260°C (500°F) without sticking, spotting, or marking.*

**PRODUCT CHARACTERISTICS**

Non-flammable  
 Concentrated  
 Contains no organic solvents  
 No HCFC's, CFC's, or halogenated compounds  
 Maximum release without mold build up  
 Will not oxidize or carbonize  
 Enhanced worker safety  
 Fewer costly rejects  
 Environmentally safe  
 Finer detail, high gloss finish  
 Easy to apply

**APPLICATIONS**

**Ideal for the following molding operations**

Sand core operations  
 Investment casting  
 Injection molding  
 Thermosets  
 Thermoplastics

**Suitable for**

Acrylic  
 Cellulosic(s)  
 Polystyrene  
 Polyester  
 Polyurethane  
 Rubber



CONTAINER SIZE 989	REORDER NUMBER
20 Liter	081693



995

## RELEASE AGENT



*Concentrated formulation for use in all mold applications. Up to 20% more releases per application, increases production rates, and reduces costly rejects.*

### PRODUCT CHARACTERISTICS

Unique, complex silicone polymer  
Contains no CFC's, chlorinated solvents,  
or halogenated compounds  
Multiple releases per application  
No mold build up, leaves mold cleaner  
Easy to apply  
High gloss, wet look finish  
Fewer rejects  
Finer detail  
Faster cycling



### APPLICATIONS

**Ideal for the following molding operations**

Sand core operations  
Investment casting  
Injection molding  
Thermosets  
Thermoplastics

### Suitable for

Acrylic  
Cellulosic(s)  
Polystyrene  
Polyester  
Polyurethane  
Rubber

CONTAINER SIZE	REORDER NUMBER
995	
Aerosol	081675
20 Liter	081779
208 Liter	081860



# METALWORKING FLUIDS





**380**

## MACHINERY COOLANT

*Full synthetic, biodegradable, water soluble coolant that is formulated to be resistant to microbial attack. Excellent lubricity and heat dissipating properties extend tool life.*

### PRODUCT CHARACTERISTICS

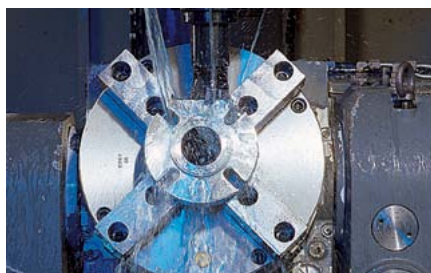
High detergency  
Stable in hard water  
Easily removed with water,  
no solvents necessary  
Contains no petroleum or mineral oil  
Anti-corrosive  
Superior heat dissipation  
Concentrated, water dilutable  
Low drag out  
Excellent filterability  
For all metals except magnesium

### APPLICATIONS

Broaching  
Drilling  
Grinding  
Machining  
Milling  
Reaming  
Sawing  
Tapping  
Turning

### NOTE

For recommended dilutions, maintenance, clean-up, storage and waste disposal please consult the product data sheet. It is recommended that the reservoir be cleaned with Chesterton's 814 Sump Cleaner and Conditioner.



CONTAINER SIZE	REORDER NUMBER
380	
20 Liter	080091
208 Liter	080175

**388**

## SYNTHETIC TAPPING FLUID

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

### PRODUCT CHARACTERISTICS

Ready to use  
Fluid, penetrates tight tolerances  
Metal fines do not stick  
Can be used with aluminum,  
and aluminum alloys  
Does not smoke, fume or mist  
Essentially odorless  
Biodegradable, contains no oil or solvents  
Excellent lubricity  
Superior heat dissipation  
Extends tool life  
Corrosion inhibited  
Contains no chlorine, sulfur,  
chlorinated hydrocarbons, petroleum oil,  
PCB's, nitrites, phenols, or mercurials

### APPLICATIONS

Tapping  
Boring  
Reaming  
Threading  
Drilling  
Milling  
May be used in  
mist applications

### NOTE

Please consult the product data sheet for the suggested use metals listing, clean-up, storage and waste disposal information.



CONTAINER SIZE	REORDER NUMBER
388	
475 Milliliter	081491
20 Liter	081492
208 Liter	081194

**389**

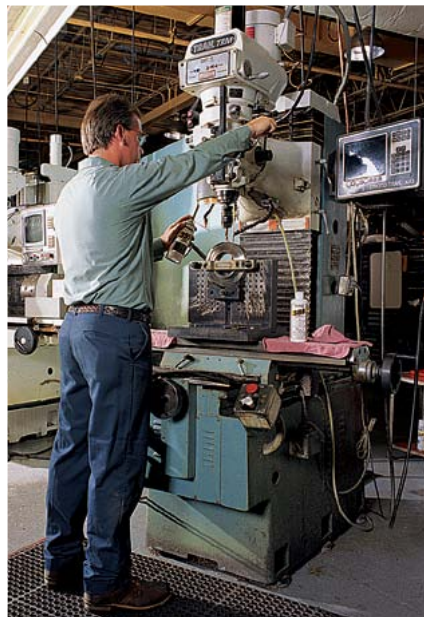
## SYNTHETIC TAPPING COMPOUND



*Provides the industrial performance of conventional petroleum and solvent based fluids with the superior lubrication of a synthetic, heat-dissipating formulation.*

### PRODUCT CHARACTERISTICS

Ready to use  
 Clinging, does not throw off  
 Appearance and feel of petroleum oil  
 Excellent lubricity  
 Reduces galling  
 Extends tool life  
 Corrosion inhibited  
 No chlorine,  
 chlorinated hydrocarbons, or sulfur  
 Does not smoke, fume, or mist  
 Essentially odorless  
 Biodegradable



### APPLICATIONS

Tapping  
 Boring  
 Reaming  
 Threading  
 Drilling  
 Milling

### NOTE

Please consult the product data sheet for the suggested use metals listing, clean-up, storage and waste disposal information

CONTAINER SIZE	REORDER NUMBER
389	
475 Milliliter	083431
20 Liter	083429

**390**

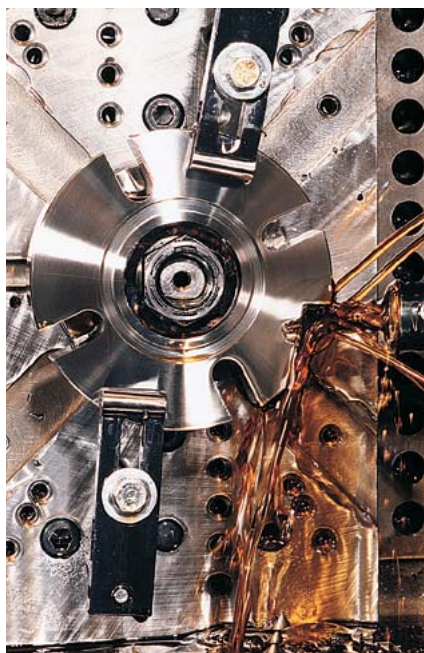
## CUTTING OIL



*High viscosity, oil-based lubricant reinforced for heavy duty machining applications.*

### PRODUCT CHARACTERISTICS

Use on hard or soft ferrous metals  
 Powerful extreme pressure additives  
 Provides maximum tool life  
 Excellent part finish  
 Clings to vertical and overhead surfaces  
 Cleaner cuts, prevents metal to metal  
 microwelding, galling and built-up edges  
 Protects from rust  
 No unpleasant odors  
 NSF Registered



### APPLICATIONS

**A lubricant for all types of metal cutting and forming**

Broaching  
 Boring  
 Drilling  
 Sawing  
 Reaming  
 Milling  
 Tapping  
 Countersinking

### NOTE

Tools and parts are easily cleaned with water-based degreasers such as Chesterton's 801 Industrial & Marine Solvent or solvent based products such as 274 Industrial Degreaser, please consult product data sheet for additional information

CONTAINER SIZE	REORDER NUMBER
390	
Aerosol	080102



395

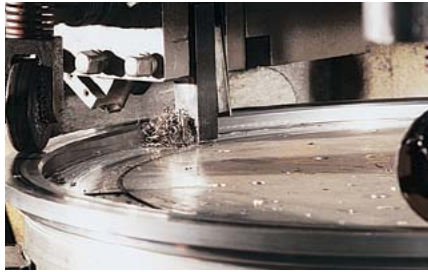
## TAPPING LUBRICANT



*Non-corrosive, non-staining compound, which can be used on all metals including aluminum and aluminum alloys.*

### PRODUCT CHARACTERISTICS

- High viscosity clings to tools
- Contains no chlorinated hydrocarbons
- Will not corrode aluminum or other soft metals
- Excellent lubricity for softer metals
- Improves cutting accuracy
- Clear, colorless, non-staining
- Pleasant mild odor
- Improves machinability, frees chip movement and reduces drag
- Stops galling; promotes a uniform cut
- Prolongs life of cutting tools
- Increases production rate
- NSF Registered



### APPLICATIONS

- Tapping
- Threading
- Reaming
- Boring
- Milling
- Broaching
- Air mist applicators
- Acceptable for a variety of metals including aluminium alloys
- Excellent for aluminum mold fabrication and prototype machining

CONTAINER SIZE	REORDER NUMBER
395	
Aerosol	085201
20 Liter	085211



# CORROSION CONTROL





**421**

## CLEAR PROTECTIVE COATING (CPC)

*General duty acrylic coating provides a clear, impermeable, flexible film to protect against air, water, oils, chemicals, and corrosion up to 80°C (176°F).*

### PRODUCT CHARACTERISTICS

Transparent  
Non-yellowing  
High dielectric strength  
Oil resistant  
Water resistant  
Non-staining  
Quick-drying  
High gloss  
Resistant to fungus  
Protects copper, aluminum, and brass from forming dull oxide layer



### APPLICATIONS

Metal machinery  
Tools  
Forms  
Paper signs  
Documents  
Drawings  
Connectors  
Electrical assemblies  
Electronic circuit boards  
Motor windings

CONTAINER SIZE  
421

Aerosol

REORDER NUMBER

084901

**438**

## PTFE COATING

*The best combination of a clean, dry, PTFE-based powder lubricant with a tough, long-term, protective coating that resists water and chemicals.*

### PRODUCT CHARACTERISTICS

Specially designed for smooth non-porous surfaces  
Non-staining  
Dries instantly  
Non-oily, non-greasy  
Excellent chemical resistance  
Strong resistance to wash out  
Will not absorb or hold moisture  
Guards against sticking and material build-up  
Reduces lubricant costs  
Saves production time  
Reduces power consumption  
NSF Registered



### APPLICATIONS

Metals  
Plastics  
Wood  
Leather  
Rubber  
Glass  
Painted surfaces  
Fiberglass  
Elastomers  
Instruments  
Machine tools  
Plastic bearings  
Cold molds  
Dies  
Inside bins, tanks, hoppers  
Paper converting equipment  
Woodworking shops

### CAUTION

On plastic or paint, test small area before using

CONTAINER SIZE  
438

Aerosol

REORDER NUMBER

082808

## 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.*



### PRODUCT CHARACTERISTICS

Easy to apply – easy to remove  
Self-healing if scratched  
Does not peel or flake  
Provides up to two years corrosion protection under sheltered outdoor conditions  
Conforms to MIL-C-161173D, Grade 1 and 4 (transparent only)  
Excellent resistance to acid, alkali and salt air fumes  
Available in transparent brown and opaque industrial grey  
Product can be easily removed with Chesterton's 276 Electronic Component Cleaner or 274 Industrial Degreaser



### APPLICATIONS

Metal tools  
**Parts in process**  
Machinery, tubing, castings, rods, jigs and fixtures  
Stampings  
Parts in storage  
Pumps  
Fittings  
Valves  
Hinges  
Tanks  
Indoor structural steel

CONTAINER SIZE	REORDER NUMBER
----------------	----------------

740 - TRANSPARENT BROWN	
Aerosol	087702
1 Gallon/3.8 Liter	087705
20 Liter	087704
208 Liter	087707

## 752

# COLD GALVANIZING COMPOUND

*One part system zinc rich primer or protective topcoat for iron, steel, and welds exposed to atmospheric or corrosive conditions.*

### PRODUCT CHARACTERISTICS

Flexible, non-chipping, instantly galvanizing  
95% pure zinc in dried film  
Ultra fine particle size  
Fast drying, no heat required  
3-way corrosion protection  
Conforms to MIL-P-46105, MIL-P-21035 and MIL-P-26915



### APPLICATIONS

Steel and iron surfaces/structures  
Air conditioning units  
Agricultural machinery  
Automotive bodies  
Fences  
Marine equipment  
Metal roofs  
Mining equipment  
Structural steel tanks  
Transmission towers  
Underground pipelines  
Welds  
Ducts  
Decks

CONTAINER SIZE	REORDER NUMBER
----------------	----------------

752	
Aerosol	082601
2,7 Kilogram	082603



763

## RUST TRANSFORMER®



*A mild, natural, acid based product, electrochemically transforms rust into a corrosion-inhibiting surface. An excellent surface preparation alternative to sand blasting.*

### PRODUCT CHARACTERISTICS

- Works only when in contact with rust; forms protective film
- Easy to apply
- No sandblasting
- Cleans up with water
- No strong acids
- No elaborate application equipment
- Biodegradable



### APPLICATIONS

- Storage tanks
- Auto or truck bodies
- Heavy equipment
- Bridges
- Transmission line towers
- Ships
- Piers
- Structural steel
- Marine
- Construction sites

### NOTE

Provides a good surface for application of Chesterton's 740 Heavy Duty Rust Guard

#### CONTAINER SIZE REORDER NUMBER

CONTAINER SIZE	REORDER NUMBER
763	
1 Gallon/3.8 Liter	089417
20 Liter	089418
208 Liter	089419

775

## MOISTURE SHIELD



*Efficient, clear, moisture displacing and anti-corrosion protective film protects metal parts and equipment for months.*

### PRODUCT CHARACTERISTICS

- Transparent film
- Excellent corrosion protection
- Penetrates fine tolerances
- High dielectric strength
- Protects new metal from corrosion
- Easily removable with Chesterton's water based or solvent based cleaners
- Conforms to MIL-C-16173D corrosion preventative, Grade 3



### APPLICATIONS

- Parts in process
- Parts in transit
- Parts in storage
- Electrical systems
- Marine industry
- Dries out wet electrical parts

### NOTE

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

#### CONTAINER SIZE REORDER NUMBER

CONTAINER SIZE	REORDER NUMBER
775	
Aerosol	082102
20 Liter	082110
208 Liter	082107



# ACCESSORIES





## ACCESSORIES



### NOVOSPRAYER II

The Chesterton Novosprayer II is a 475 milliliter (16 oz.), heavy duty, refillable, aluminum container designed to offer the convenience of an aerosol.

The Novosprayer II is easily pressurized with compressed air found in most industrial facilities. For filling ease, Chesterton also offers a filling/measuring device to eliminate the guess work when filling units from bulk containers. Please consult the product data sheet for product compatibility and additional information.

NOVOSPRAYER II	REORDER NUMBER
Container	083086
Filler/Measurer	709442
Repair Kits	709443



### ECONO-SPRAYER

A heavy duty refillable spray applicator for lubricants, solvents, cleaning compounds, coatings. The 0,95 liter (1 quart) sprayer is fully portable and uses your compressed air to pressurize the container. All-metal construction means the Econo-sprayer is built to last. The Econo-sprayer comes with both jet stream and mist spray nozzles.

ECONO-SPRAYER	REORDER NUMBER
Chrome	080016



### 470 HAND HELD PROPORTIONER FOAM SPRAYER

Dilutes liquid chemical concentrates while spraying, creating a thick clinging foam. The unit, constructed of chemically resistant materials, is designed for general spray cleaning with water based cleaners; works strictly on water power. Eleven color coded pre-sized metering tips are provided for dilution ratios from 21:1 to 256:1. The unit has a quick disconnect water hose fitting and trigger operated pistol grip control handle. A minimum water pressure of 1,4 kg/cm<sup>2</sup> (20 psi) is required to operate equipment. Constructed of chemically resistant materials for durability and long life.

470 HAND HELD PROPORTIONER	REORDER NUMBER
470	080048

## ACCESSORIES



### 208 DRUM MOUNTED LIQUID PROPORTIONER

Automatically dilutes liquid chemical concentrates with water to a pre-set concentration. Unit mounts directly on 110 or 208 liter (30 or 55 gallon) drums and discharges the diluted product directly into any container.

Flow rate is 9,5 liters (2.5 gallons) per minute at 3,0 kg/cm<sup>2</sup> (40 psi).

Maximum dilution range at 3,0 kg/cm<sup>2</sup> (40 psi) is 110 : 1, minimum is 1 : 1.

No electricity needed to operate.

A minimum water pressure of 1,4 kg/cm<sup>2</sup> (20 psi) is needed to operate the equipment.

Economically and safely produces product at the desired dilution, eliminating the possibility of using too much chemical concentrate.

208 DRUM MOUNTED LIQUID PROPORTIONER	REORDER NUMBER
208	084923

### 216 DRUM MOUNTED LIQUID PROPORTIONER

Has the same great features as the 208 drum with the option of either drum or wall mounting.

Flow rates are increased to 37,1 liters (9.8 gallons) per minute at 3,0 kg/cm<sup>2</sup> (40 psi).

Maximum dilution range at 3,0 kg/cm<sup>2</sup> (40 psi) is 1024 : 1, minimum is 5 : 1.

216 DRUM MOUNTED LIQUID PROPORTIONER	REORDER NUMBER
216	080049



### 340 SPRAY WAND WITH LIQUID PROPORTIONER

Dilutes concentrated liquids while in use. Eight color coded pre-sized metering tips are provided for dilution ratios from 6 : 1 to 75 : 1. No electricity is required to operate. Water provides the energy to make the unit perform. Spray wand allows operator to reach inaccessible areas, to spray around corners and under and behind equipment, and to spray areas beyond their normal reach. The three way valve allows operator to control unit at the wand by choosing to spray, rinse,

or shut the unit off. Units are constructed of plastic and chemical resistant metal for long life. A minimum of 1,4 kg/cm<sup>2</sup> (20 psi) water pressure is needed to operate equipment.

340 SPRAY WAND WITH LIQUID PROPORTIONER	REORDER NUMBER
340	080046



### DRUM FAUCETS 1,9 cm (3/4") and 5,1 cm (2")

Fits all standard 1,9 cm (3/4") and 5,1 cm (2") openings. Non-corroding polyethelene construction can handle thin or viscous fluids. Instant on/off control. No gaskets or inside threads to leak. No wrench necessary to install.

DRUM FAUCET	REORDER NUMBER
1,9 cm (3/4")	080019
5,1 cm (2")	080023



## ACCESSORIES



### DRUM PUMP

Dispenses liquids from Chesterton 110 and 208 liter (30 to 55 gallon) drums. Easily installed in the standard 5,1 cm (2") drum opening. Self-venting. The spigot orientation of 360° permits versatility in dispensing. Effortless operation by unique lever-action stroke. Delivers approximately 0,48 liters (10 ounces) per stroke, with the capability of 22,7 liters (6 gallons) per minute. Will handle the more viscous materials (equivalent of SAE #250 oil). Made of high quality non-corroding polypropylene.

**NOTE:** For dispensing of solvents use the metal drum pump.

DRUM PUMP	REORDER NUMBER
Polypropylene	080018
Stainless steel	709278



### LUBRI-CUP™

An automatic, demand free, dispensing device designed to be used with Chesterton's high performance greases. The refillable unit prevents both over and under filling of bearing housings and saves labor downtime for re-lubricating and replacing costly bearings.

#### Construction:

Transparent polycarbonate

#### Reservoir capacity:

56,7 g (2 oz)

#### Dimensions:

Diameter 60,3 mm (2-3/8 in)  
Height 117,5 mm (4-5/8 in)

#### Temperature limits:

-23°C (-10°F) to 121°C (250°F)

#### Connections:

1/8 NPT or 1/8 BSP

LUBRI-CUP	REORDER NUMBER
NPT Thread	086047
BSP Thread	083021



### LUBRI-CUP™ DISPENSERS

A range of automatic single-point and multi point lubricators that dispenses Chesterton grease and oil to critical areas, eliminating over- and under-lubrication.

These user friendly units have a compact, convenient and sturdy design that is simple to operate and maintain. When used with Chesterton lubricants they offer extended equipment life and reliability even under the harshest conditions of load, temperature and corrosion.

#### Lubri-Cup™ DISPENSERS

Contact Customer Service





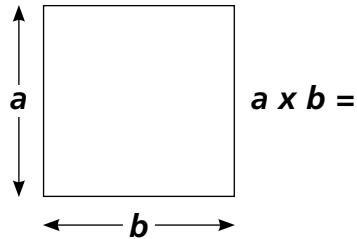
# TECHNICAL SPECIFICATIONS



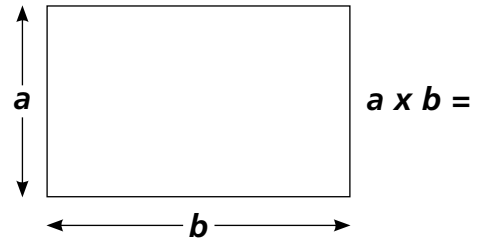
# CALCULATING SQUARE FOOTAGE

## TO CALCULATE

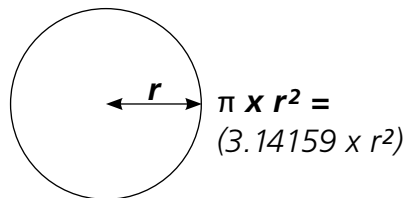
### The Area of a Square



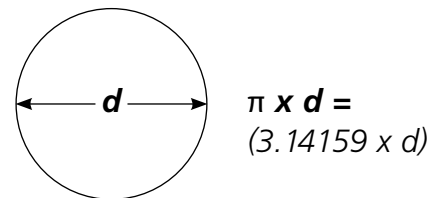
### The Area of a Rectangle



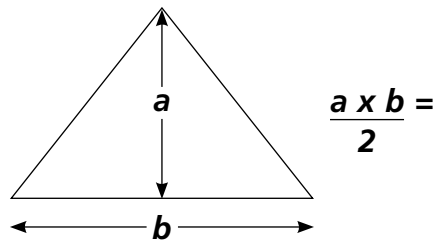
### The Area of a Circle



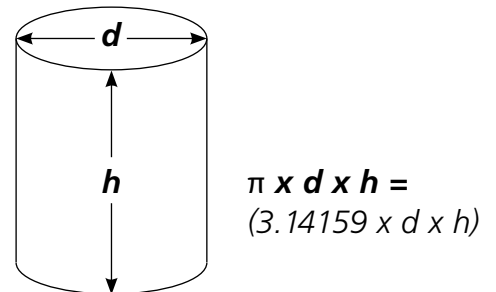
### The Circumference of a Circle



### The Area of a Triangle



### The Area of a Cylinder



# UNITS OF MEASURE

## GEOMETRIC FIGURES

Circle, area of =  $D^2 \times 0.7854 = \pi r^2$

$r$  = radius

Circle, circumference of =  $\pi D$  or  $2\pi r$

Sphere, area of =  $\pi D^2$

Sphere, area of =  $4\pi r^2$

$D$  = diameter

Sphere, volume of =  $D^3 \times 0.5236$

Sphere, volume of =  $\frac{4}{3}\pi r^3$

Triangle, area of =  $\frac{1}{2}$  altitude x base

Cone, volume of = area of base x  $\frac{1}{3}$  altitude

Trapezoid, area of =  $\frac{1}{2}$  (sum of parallel sides) x altitude

Pyramid, volume of = area of base x  $\frac{1}{3}$  altitude

## MISCELLANEOUS CONSTANTS

$\pi$  = 3.14159

$e$  = 2.71828

$\log_e X = 2.30259 \log_{10} X$

Electronic charge =  $4.5 \times 10^{-10}$  e.s.u.

Electronic charge =  $1.60 \times 10^{-20}$  e.m.u.

Mass units =  $1.07 \times 10^{-3}$  x Mev

Mass units =  $6.71 \times 10^2$  x ergs

Speed of light =  $3 \times 10^8$  meter/sec.

Speed of sound (in air at sea level) = 1100 ft./sec.

# UNITS OF MEASURE

## MARINERS MEASURE

6 feet = 1 fathom  
 120 fathoms = 1 cable length (U.S.N.)  
 8.439 cable lengths = 1 nautical mile  
 6076.12 feet = 1 nautical mile  
 1 nautical mile = 1.15 statute mile (international)

## METRIC SYSTEM CONVERSION

Inches x .0254 = Meters  
 Feet x .305 = Meters  
 Yards x .914 = Meters  
 Miles x 1609 = Meters  
 Miles x 1.609 = Kilometers  
 Millimeters x .03937 = Inches  
 Centimeters x .3937 = Inches  
 Meters x 39.37 = Inches  
 Meters x 3.281 = Feet  
 Meters x 1.094 = Yards  
 Kilometers x .621 = Miles  
 Square Centimeters x .155 = Sq. Inches  
 Square Meters x 10.764 = Sq. Feet  
 Square Meters x 1.186 = Sq. Yards  
 Cubic Centimeters x .061 = Cubic Inches  
 Cubic Inches x 16.2 = Cubic Centimeters  
 Liters x .2642 = Gallons  
 Gallons x 3.78 = Liters  
 Cubic Meters x 1.308 = Cubic Yards  
 Cubic Yards x .765 = Cubic Meters

## METRIC SYSTEM PREFIXES

Mega = 1,000,000  
 Kilo = 1,000  
 Hecto = 100  
 Deca = 10  
 Deci = 0.1  
 Centi = 0.01  
 Milli = 0.001  
 Micro = 0.000001  
 Tera (T) =  $10^{12}$   
 Giga (G) =  $10^9$   
 Nano (N) =  $10^{-9}$   
 Pico (P) =  $10^{-12}$

## LENGTH

1 centimeter = 0.3937 inch  
 1 centimeter = 0.0328 foot  
 1 meter = 39.37 inches  
 1 meter = 1.0936 yards  
 1 kilometer = 0.62137 mile  
 1 kilometer = 3280 feet  
 1 inch = 2.54 centimeters  
 1 foot = 0.3048 meter  
 1 mil = 0.001 inch

## SQUARE MEASURE

1 sq. centimeter = 0.1550 sq. in.  
 1 sq. meter = 1.196 sq. yd.  
 1 sq. meter = 10.764 sq. ft.  
 1 sq. kilometer = 0.386 sq. mile  
 1 sq. inch = 6.452 sq. centimeters  
 1 sq. foot = 929.03 sq. centimeters  
 1 sq. foot = 0.092903 sq. meter  
 1 sq. yard = 0.8361 sq. meter  
 1 sq. mile = 2.59 sq. kilometers  
 1 circular mil = 0.7854 sq. mils  
 1 sq. inch = 1,000,000 sq. mils

## CUBIC MEASURE

1 cubic centimeter = 0.061 cubic inches  
 1 cubic inch = 16.39 cubic centimeters  
 1 cubic meter = 1.308 cubic yards  
 1 cubic meter = 35.316 cubic feet  
 1 gallon (U.S.) = 231 cubic inches  
 1 cubic foot = 7.48 gallons  
 1 liter = 1,000 cubic centimeters

## TIME

1 day = 86,400 seconds  
 1 year = 8,760 hours (approximately)

## VELOCITY

1 ft./sec. = 0.3048 meter/sec.  
 1 meter/sec. = 3.281 ft./sec.  
 1 ft./min. = 0.00508 meter/sec.  
 1 meter/sec. = 196.9 ft./min.  
 1 mile/hr. = 0.4470 meter/sec.  
 1 meter/sec. = 2.237 mile/hr.  
 1 kilometer/hr. = 0.2778 meter/sec.  
 1 meter/sec. = 3.60 kilometer/hr.

## ACCELERATION

1 ft./sec./sec. = 0.3048 meter/sec./sec.  
 1 mile/hr./sec. = 0.4470 meter/sec./sec.  
 1 kilometer/hr./sec. = 0.2778 meter/sec./sec.  
 Standard gravitation = 9.806 meter/sec./sec.  
 Standard gravitation = 980.6 centimeter/sec./sec.  
 Standard gravitation = 32.2 ft./sec./sec.

## MASS

1 slug = 32.2 pounds mass  
 1 slug = 14.606 kilograms  
 1 pound mass = 453.6 grams

## FORCE

1 pound force = 1 slug x 1 ft./sec./sec.  
 1 dyne = 1 gram x 1 centimeter/sec./sec.  
 1 newton = 1 kilogram x 1 meter/sec./sec.  
 1 pound force = 4.452 newtons  
 1 newton = 100,000 dynes  
 1 newton = 0.224 pound force  
 1 gram force = 980.6 dynes

## PRESSURE

1 atmosphere = 14.69 pounds/sq. inch  
 1 atmosphere = 29.92 inches of Hg  
 1 atmosphere = 76 centimeters of Hg  
 1 atmosphere = 33.9 feet of water  
 1 inch of Hg = 0.491 pounds/sq. inch  
 Water pressure pounds/sq. inch = head in feet x 0.434  
 Hg (Mercury)

## TORQUE

Torque is the product of force and perpendicular distance  
 1 lb./ft. = 1.356 newton/meter  
 1 lb./ft. = 1.356 joule/radian  
 1 lb./ft. = 1.356 x  $10^7$  dynes/centimeter  
 1 lb./ft. = 1.383 x  $10^4$  grams/centimeter  
 1 lb./ft. = 192 ounce/inches

## WORK AND ENERGY – MECHANICAL

1 erg = 1 dyne x 1 centimeter  
 1 joule = 1 newton x 1 meter  
 1 joule =  $10^5$  dynes x  $10^2$  centimeters  
 1 joule =  $10^7$  ergs  
 1 ft./lb. = 1 pound force x 1 foot  
 1 ft./lb. = 1.356 joules

## WORK AND ENERGY – HEAT EQUIVALENT

1 Btu raises 1 pound of water 1°F  
 1 gram calorie raises 1 gram of water 1°C  
 1 Btu = 252 gram calories  
 1 Btu = 778.3 ft./lb.  
 1 Btu = 1054.8 joules  
 1 gram calorie = 0.003964 Btu  
 1 gram calorie = 4.184 joules  
 1 horsepower hour = 2545 Btu

## WORK AND ENERGY – ELECTRICAL EQUIVALENT

1 joule = 1 watt x 1 second  
 1 joule = 1 amp (DC) x 1 volt (DC) x 1 sec.  
 $W$  (joules) =  $1/2 L$  (henries) x  $I$  (amperes)<sup>2</sup>  
 $W$  (joules) =  $1/2 C$  (farads) x  $E$  (volts)<sup>2</sup>  
 1 kilowatt hour = 3,600,000

## POWER

1 watt = 1 joule/sec.  
 1 horsepower = 550 ft./lb./sec.  
 1 horsepower = 746 watts  
 1 watt = 3.413 Btu/hr.  
 1 watt = 0.239 gram calorie/sec.  
 $P$  watts =  $R$  (ohms) x  $I$  (amperes)<sup>2</sup>  
 $P$  watts =  $E$  (volts)<sup>2</sup> /  $R$  (ohms)

## ANGLES

1 circle =  $2\pi$  radians  
 1 circle = 360 degrees  
 1 radian = 57.3 degrees  
 1 degree = 0.01745 radians



# COMMON FRACTIONS REDUCED TO DECIMALS

8ths	16ths	32nds	64ths		8ths	16ths	32nds	64ths		8ths	16ths	32nds	64ths	
—	—	—	1	.015625	—	—	—	23	.359375	—	—	—	45	.703125
—	—	1	2	.03125	3	6	12	24	.375	—	—	23	46	.71875
—	—	—	3	.046875	—	—	—	25	.390625	—	—	—	47	.734375
—	1	2	4	.0625	—	—	13	26	.40625	6	12	24	48	.75
—	—	—	5	.078125	—	—	—	27	.421875	—	—	—	49	.765625
—	—	3	6	.09375	—	7	14	28	.4375	—	—	25	50	.78125
—	—	—	7	.109375	—	—	—	29	.453125	—	—	—	51	.796875
1	2	4	8	.125	—	—	15	30	.46875	—	13	26	52	.8125
—	—	—	9	.140625	—	—	—	31	.484375	—	—	—	53	.828125
—	—	5	10	.15625	4	8	16	32	.5	—	—	27	54	.84375
—	—	—	11	.171875	—	—	—	33	.515625	—	—	—	55	.859385
—	3	6	12	.1875	—	—	17	34	.53125	7	14	28	56	.875
—	—	—	13	.203125	—	—	—	35	.546875	—	—	—	57	.890625
—	—	7	14	.21875	—	9	18	36	.5625	—	—	29	58	.90625
—	—	—	15	.234375	—	—	—	37	.578125	—	—	—	59	.921875
2	4	8	16	.25	—	—	19	38	.59375	—	15	30	60	.9375
—	—	—	17	.265625	—	—	—	39	.609375	—	—	—	61	.953125
—	—	9	18	.28125	5	10	20	40	.625	—	—	31	62	.96875
—	—	—	19	.296875	—	—	—	41	.640625	—	—	—	63	.984375
—	5	10	20	.3125	—	—	21	42	.65625	8	16	32	64	1
—	—	—	21	.328125	—	—	—	43	.671875					
—	—	11	22	.34375	—	11	22	44	.6875					

# CONVERSION TABLE

MULTIPLY	BY	TO OBTAIN	MULTIPLY	BY	TO OBTAIN
Atmospheres	33.90	feet of water	Horsepower/hrs.	2545	Btu
	29.92	inches of mercury		1.98 x 10 <sup>6</sup>	foot pounds
Btu	14.69	pounds per sq. inch		2.684 x 10 <sup>6</sup>	joules
	252	calories (gram) (15°)	Inches of mercury	.03342	atmospheres
	778.3	foot pounds		1.133	feet of water
	.0003929	horsepower/hrs.	.4912	pounds per sq. inch	
	1054.8	joules	Joules	.0009478	Btu
.0002930	kilowatt/hrs.	.7376		foot pounds	
Btu per min.	12.97	foot pounds per sec.		.0002778	watt hours
	.02357	horsepower	1.0	watt seconds	
	17.58	watts	Kilowatt/hrs.	3413	Btu
Calories	.003968	Btu		3.6 x 10 <sup>13</sup>	ergs
	Erg	9.478 x 10 <sup>-11</sup>	Btu	Lux	.0929
1.0		dyne centimeters	Meters		100
7.376 x 10 <sup>-8</sup>		foot pounds		39.37	inches
Feet of water	.02950	atmospheres	Radians	57.3	degrees
	.8826	inches of mercury		Watts	.05689
	.4335	pounds per sq. inch	1.0 x 10 <sup>7</sup>		ergs per sec.
Foot pounds per sec.	.07712	Btu per min.	44.26		foot pounds per min.
	.001818	horsepower	.00134	horsepower	
	.001356	kilowatts			
Foot candle	10.765	lux			
Horsepower	42.41	Btu per min.			
	33,000	foot pounds per min.			
	550	foot pounds per sec.			
	.7457	kilowatts			



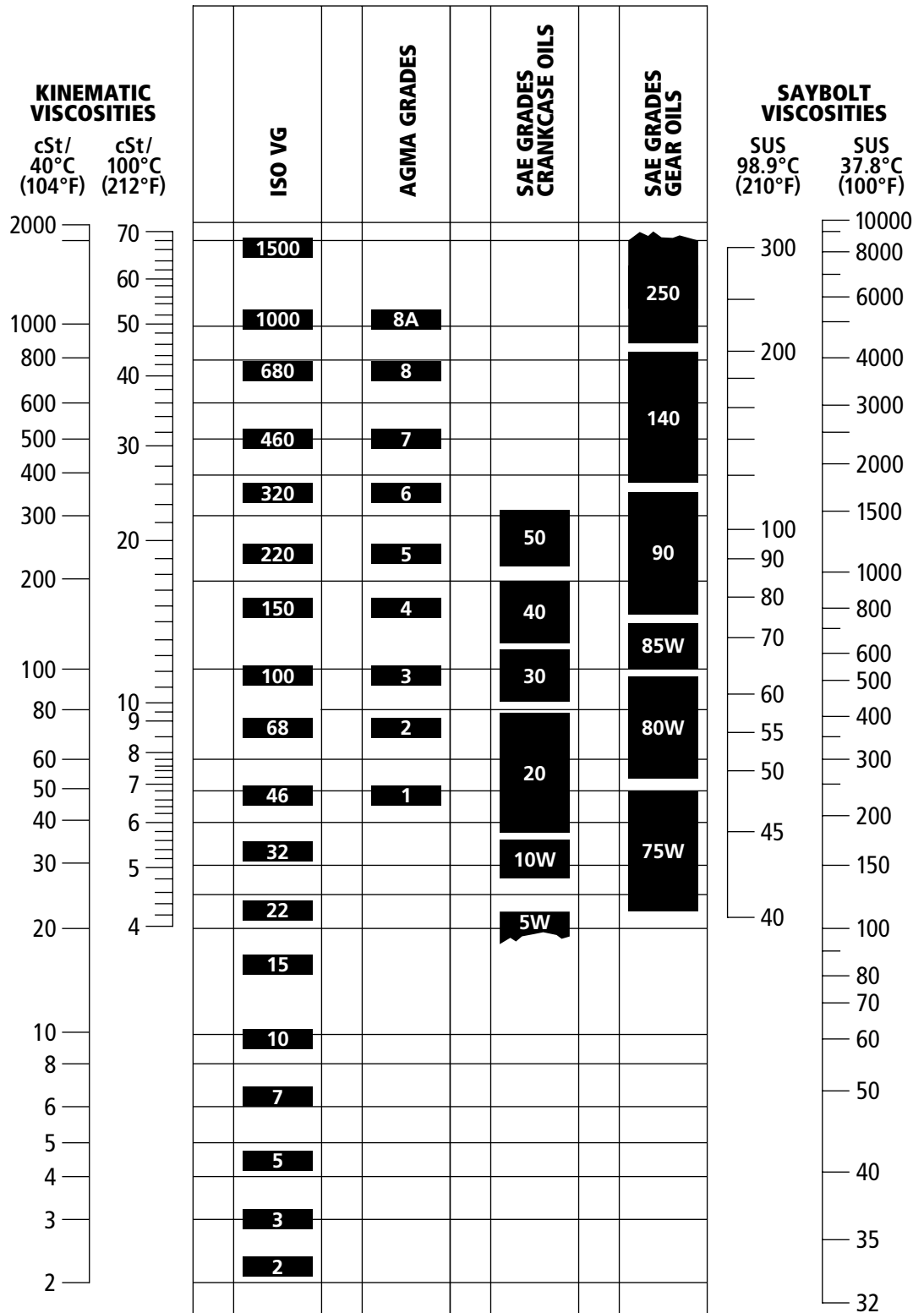


# TEMPERATURE CONVERSION TABLE

TEMP. °C	TEMP. °F	TEMP. °C	TEMP. °F	TEMP. °C	TEMP. °F
427	<b>800</b>	1472	743	<b>1370</b>	2498
432	<b>810</b>	1490	749	<b>1380</b>	2516
438	<b>820</b>	1508	754	<b>1390</b>	2534
443	<b>830</b>	1526	760	<b>1400</b>	2552
449	<b>840</b>	1544	765	<b>1410</b>	2570
454	<b>850</b>	1562	771	<b>1420</b>	2588
460	<b>860</b>	1580	777	<b>1430</b>	2606
466	<b>870</b>	1598	782	<b>1440</b>	2624
471	<b>880</b>	1616	788	<b>1450</b>	2642
477	<b>890</b>	1634	793	<b>1460</b>	2660
482	<b>900</b>	1652	799	<b>1470</b>	2678
488	<b>910</b>	1670	804	<b>1480</b>	2696
493	<b>920</b>	1686	810	<b>1490</b>	2714
499	<b>930</b>	1706	816	<b>1500</b>	2732
504	<b>940</b>	1724	821	<b>1510</b>	2750
510	<b>950</b>	1742	827	<b>1520</b>	2768
516	<b>960</b>	1760	832	<b>1530</b>	2786
521	<b>970</b>	1778	838	<b>1540</b>	2804
527	<b>980</b>	1796	843	<b>1550</b>	2882
532	<b>990</b>	1814	849	<b>1560</b>	2840
538	<b>1000</b>	1832	854	<b>1570</b>	2856
543	<b>1010</b>	1850	860	<b>1580</b>	2876
549	<b>1020</b>	1868	866	<b>1590</b>	2894
554	<b>1030</b>	1886	871	<b>1600</b>	2912
560	<b>1040</b>	1904	877	<b>1610</b>	2930
566	<b>1050</b>	1922	882	<b>1620</b>	2948
571	<b>1060</b>	1940	888	<b>1630</b>	2966
577	<b>1070</b>	1958	893	<b>1640</b>	2984
582	<b>1080</b>	1976	899	<b>1650</b>	3002
588	<b>1090</b>	1994	904	<b>1660</b>	3020
593	<b>1100</b>	2012	910	<b>1670</b>	3038
599	<b>1110</b>	2030	916	<b>1680</b>	3056
604	<b>1120</b>	2048	921	<b>1690</b>	3074
610	<b>1130</b>	2066	927	<b>1700</b>	3092
616	<b>1140</b>	2084	932	<b>1710</b>	3110
621	<b>1150</b>	2102	938	<b>1720</b>	3128
627	<b>1160</b>	2120	943	<b>1730</b>	3146
632	<b>1170</b>	2138	949	<b>1740</b>	3164
638	<b>1180</b>	2156	954	<b>1750</b>	3182
643	<b>1190</b>	2174	960	<b>1760</b>	3200
649	<b>1200</b>	2192	966	<b>1770</b>	3218
654	<b>1210</b>	2210	971	<b>1780</b>	3236
660	<b>1220</b>	2228	977	<b>1790</b>	3254
666	<b>1230</b>	2246	982	<b>1800</b>	3272
671	<b>1240</b>	2264	988	<b>1810</b>	3290
677	<b>1250</b>	2282	993	<b>1820</b>	3308
682	<b>1260</b>	2300	999	<b>1830</b>	3326
688	<b>1270</b>	2318	1004	<b>1840</b>	3344
692	<b>1280</b>	2336	1010	<b>1850</b>	3362
699	<b>1290</b>	2354	1016	<b>1860</b>	3380
704	<b>1300</b>	2372	1021	<b>1870</b>	3398
710	<b>1310</b>	2390	1027	<b>1880</b>	3416
716	<b>1320</b>	2408	1032	<b>1890</b>	3434
721	<b>1330</b>	2426	1038	<b>1900</b>	3452
727	<b>1340</b>	2444	1043	<b>1910</b>	3470
732	<b>1350</b>	2462	1049	<b>1920</b>	3488
738	<b>1360</b>	2480	1054	<b>1930</b>	3506
				<b>1940</b>	3524
				<b>1950</b>	3542
				<b>1960</b>	3560
				<b>1970</b>	3578
				<b>1980</b>	3596
				<b>1990</b>	3614
				<b>2000</b>	3632

**NOTE:**  
THE NUMBERS IN BOLD REFER TO THE TEMPERATURE EITHER IN DEGREES CENTIGRADE OR FAHRENHEIT WHICH IS DESIRED TO CONVERT INTO THE OTHER SCALE.

# VISCOSITY EQUIVALENTS



- Viscosities can be related horizontally.
- Viscosities based on 95 VI single grade oils.
- ISO are specified at 40°C (104°F).
- AGMA are specified at 37.8°C (100°F).

- SAE 75W, 80W, 85W, 5W and 10W specified at low temperatures. Equivalent Viscosities for 100°C and 212°F are shown.
- SAE 90 and 250 and 20 to 50 specified at 98.9°C (210°F).



## KINEMATIC VISCOSITY/ISO SYSTEM

ISO GRADE	VISCOSITY RANGE cSt @ 38°C (100°F)	
2	1.98	2.42
3	2.88	3.52
5	4.14	5.06
7	6.12	7.48
10	9.00	11.00
15	13.50	16.50
22	19.80	24.20
32	28.80	35.20
46	41.40	50.60
68	61.20	74.80
100	90.00	110.00
150	135.00	165.00
220	198.00	242.00
320	288.00	352.00
460	414.00	506.00
680	612.00	748.00
1000	900.00	1100.00
1500	1350.00	1650.00

## HANDY GUIDE TO TAP DRILL SIZES

THREAD	TAP DRILL	THREAD	TAP DRILL
#6 – 32	No. 36	5/8 – 11	17/32
#6 – 40	No. 33	5/8 – 18	37/64
#8 – 32	No. 29	3/4 – 10	21/32
#8 – 36	No. 29	3/4 – 16	11/16
#10 – 24	No. 25	7/8 – 9	49/64
#10 – 32	No. 21	7/8 – 14	13/16
#12 – 24	No. 16	1 – 8	7/8
#12 – 28	No. 14	1 – 12	59/64
1/4 – 20	No. 7	1 – 14	15/16
1/4 – 28	No. 3		
5/16 – 18	F		
5/16 – 24	I		
3/8 – 16	5/16		
3/8 – 24	Q		
7/16 – 14	U		
7/16 – 20	25/64		
1/2 – 13	27/64		
1/2 – 20	29/64		
9/16 – 12	31/64		
9/16 – 18	33/64		

Based on approximate 75% full thread

## MATERIAL SELECTION CHART FOR CLEANERS

<b>MATERIAL</b>	<b>CLEANER</b>	<b>PROCESS</b>
Aluminum	Low alkaline*	Any, but caution should be exercised when ultrasonics are used because surface etching may occur
Copper	Moderate alkaline	Same as aluminum
Ferrous metals	Moderate alkaline	Any
Glass	Moderate alkaline	Any, but caution should be used with ultrasonics
Magnesium	Solvents only	Any
Mild steel	Moderate alkaline pH below 10 preferred	Any
Cold rolled steel	Moderate alkaline	Any
Painted surfaces	Low alkaline*	Any, but ultrasonics could affect adhesion
Plastics	Low alkaline	Any
Precious gems	Low alkaline caustic and solvent free	Ultrasonics preferred
304 stainless steel	High alkaline	Any
316 stainless steel	High alkaline	Any

\*Should check for compatibility before using



# THE MECHANICS OF CLEANING

Listed below are some of the most commonly used terms in aqueous cleaning. An effective cleaner can utilize some or all of the following types of chemical reaction methods.

## Wetting

Surface Acting Agents commonly referred to as surfactants allow the cleaner to penetrate and loosen soils from the substrate by lowering the surface tension.

## Emulsification

After the surfactants have lowered the surface tension, the emulsifiers allow two mutually immiscible fluids like oil and water to be temporarily dispersed. The oil droplets get a thin coating of surfactant that prevent them from reforming and floating to the surface. Emulsions are usually temporary to allow the oil and water to split for easy disposal.

## Saponification

The reaction between a natural organic oil (like animal fat or vegetable oil) that contains reactive fatty acids with free alkalies to form soaps. This is a permanent reaction.

## Deflocculation

The process of breaking up large clumps of soil into fine particles and dispersing them throughout the cleaning solution. A good deflocculant will keep the soils dispersed thus preventing them from recombining or agglomerating.

## Sequestration

Prevents the formulation of soap scum and salt deposits by undesirable ions like calcium magnesium, and heavy metals by deactivating them.

## WHAT MAKES UP AN EFFECTIVE WATER BASED CLEANER?

Following are some of the key ingredients that make up effective water based cleaners, brief explanations of their functions and some examples.

## Surface Active Agents (Surfactants)

Basic component of water based cleaners

Lowers surface tension of water

Emulsifier, dispersant, soil suspender

Many different chemical families are considered surfactants including: sulfonates, esters, and nonyl phenols.

Can be naturally occurring or synthetic

Different ionic charges: anionic, cationic, or nonionic

## Builders

Alkaline substances

Enhance performance of surfactants

Buffer water

Improve soil suspension

Some examples are: trisodium phosphate, potassium phosphate, sodium silicate and sodium carbonate

## Grease Cutters

Water soluble organic solvents

Some examples are: alcohol, glycol ethers, like butyl cellosolve or emulsifiable solvents like terpenes or mineral spirits

## Alkali

Generally sodium hydroxide (NaOH) or potassium hydroxide (KOH)

Saponifies animal and vegetable oils

Neutralizes acids

Buffers water

Raises pH of cleaner (high alkaline)

Consumed in chemical reaction

## Chelates

Softens water

Example:

Ethylene diamine tetraacetate (EDTA)

**In addition to the previous components, most aqueous cleaners need external help to be truly effective.**

## Work

Needed in many cases

Examples:

Scrubbing, agitation, pressure, cavitation

## Heat

Accelerates chemical reactions

Reduces viscosity

# METHOD OF LUBRICATION

SHAFT DIAMETER Up to 2.54 cm (1")	OPERATING TEMPERATURES		LUBRICANT RECOMMENDED	
	°C	°F	Oil Viscosity Sec. @ (100°F)	Greases NLGI Consistency Number
Up to 1000 rpm	Below 0°	Below 32°	150 to 185	0 to 1
	0 to 37.8	32 to 100	250 to 350	1
	37.8 to 93.3	100 to 200	400 to 1000	2
	93.3	Over 200	1500 to 2500	2 to 3
1000 to 3000 rpm	Below 0°	Below 32°	150 to 185	0 to 1
	0 to 37.8	32 to 100	250 to 350	1
	37.8 to 93.3	100 to 200	400 to 600	2
	93.3	Over 200	700 to 1000	2
3000 to 10,000 rpm	Below 0°	Below 32°	90 to 120	0 to 1
	0 to 37.8	32 to 100	150 to 185	0 to 1
	37.8 to 93.3	100 to 200	250 to 350	1
	93.3	Over 200	500 to 1000	2
Over 10,000 rpm	Below 0°	Below 32°	33 to 85	0 to 1
	0 to 37.8	32 to 100	50 to 110	0 to 1
	37.8 to 93.3	100 to 200	75 to 250	1
	93.3	Over 200	350 to 550	2

SHAFT DIAMETER 2.54 cm to 5.08 cm (1" to 2")	OPERATING TEMPERATURES		LUBRICANT RECOMMENDED	
	°C	°F	Oil Viscosity Sec. @ (100°F)	Greases NLGI Consistency Number
Up to 500 rpm	Below 0°	Below 32°	150 to 185	0 to 1
	0 to 37.8	32 to 100	250 to 350	1
	37.8 to 93.3	100 to 200	400 to 1000	2
	93.3	Over 200	1500 to 2500	2 to 3
500 to 1500 rpm	Below 0°	Below 32°	150 to 185	0 to 1
	0 to 37.8	32 to 100	250 to 350	1
	37.8 to 93.3	100 to 200	400 to 600	2
	93.3	Over 200	700 to 1000	2
1500 to 5000 rpm	Below 0°	Below 32°	90 to 120	0 to 1
	0 to 37.8	32 to 100	150 to 185	0 to 1
	37.8 to 93.3	100 to 200	250 to 350	1
	93.3	Over 200	500 to 1000	2
Over 5000 rpm	Below 0°	Below 32°	33 to 85	0 to 1
	0 to 37.8	32 to 100	50 to 110	0 to 1
	37.8 to 93.3	100 to 200	75 to 250	1
	93.3	Over 200	350 to 550	2

SHAFT DIAMETER 5.08 cm to 7.62 cm (2" to 3")	OPERATING TEMPERATURES		LUBRICANT RECOMMENDED	
	°C	°F	Oil Viscosity Sec. @ (100°F)	Greases NLGI Consistency Number
Up to 300 rpm	Below 0°	Below 32°	150 to 185	0 to 1
	0 to 37.8	32 to 100	250 to 350	1
	37.8 to 93.3	100 to 200	400 to 1000	2
	93.3	Over 200	1500 to 2500	2 to 3
300 to 1000 rpm	Below 0°	Below 32°	150 to 185	0 to 1
	0 to 37.8	32 to 100	250 to 350	1
	37.8 to 93.3	100 to 200	400 to 600	2
	93.3	Over 200	700 to 1000	2
1000 to 3000 rpm	Below 0°	Below 32°	90 to 120	0 to 1
	0 to 37.8	32 to 100	150 to 185	0 to 1
	37.8 to 93.3	100 to 200	250 to 350	1
	93.3	Over 200	500 to 1000	2
Over 3000 rpm	Below 0°	Below 32°	33 to 85	0 to 1
	0 to 37.8	32 to 100	50 to 110	0 to 1
	37.8 to 93.3	100 to 200	75 to 250	1
	93.3	Over 200	350 to 550	2



# METHOD OF LUBRICATION

SHAFT DIAMETER 7.62 cm to 10.16 cm (3" to 4")	OPERATING TEMPERATURES		LUBRICANT RECOMMENDED	
	°C	°F	Oil Viscosity Sec. @ (100°F)	Greases NLGI Consistency Number
Up to 200 rpm	Below 0°	Below 32°	150 to 185	0 to 1
	0 to 37.8	32 to 100	250 to 350	1
	37.8 to 93.3	100 to 200	400 to 1000	2
	93.3	Over 200	1500 to 2500	2 to 3
200 to 750 rpm	Below 0°	Below 32°	150 to 185	0 to 1
	0 to 37.8	32 to 100	250 to 350	1
	37.8 to 93.3	100 to 200	400 to 600	2
	93.3	Over 200	700 to 1000	2
750 to 2000 rpm	Below 0°	Below 32°	90 to 120	0 to 1
	0 to 37.8	32 to 100	150 to 185	0 to 1
	37.8 to 93.3	100 to 200	250 to 350	1
	93.3	Over 200	500 to 1000	2
Over 2000 rpm	Below 0°	Below 32°	33 to 85	0 to 1
	0 to 37.8	32 to 100	50 to 110	0 to 1
	37.8 to 93.3	100 to 200	75 to 250	1
	93.3	Over 200	350 to 550	2

SHAFT DIAMETER Over 10.16 cm (4")	OPERATING TEMPERATURES		LUBRICANT RECOMMENDED	
	°C	°F	Oil Viscosity Sec. @ (100°F)	Greases NLGI Consistency Number
Up to 100 rpm	Below 0°	Below 32°	150 to 185	0 to 1
	0 to 37.8	32 to 100	250 to 350	1
	37.8 to 93.3	100 to 200	400 to 1000	2
	93.3	Over 200	1500 to 2500	2 to 3
100 to 500 rpm	Below 0°	Below 32°	150 to 185	0 to 1
	0 to 37.8	32 to 100	250 to 350	1
	37.8 to 93.3	100 to 200	400 to 600	2
	93.3	Over 200	700 to 1000	2
500 to 1000 rpm	Below 0°	Below 32°	90 to 120	0 to 1
	0 to 37.8	32 to 100	150 to 185	0 to 1
	37.8 to 93.3	100 to 200	250 to 350	1
	93.3	Over 200	500 to 1000	2
Over 1000 rpm	Below 0°	Below 32°	33 to 85	0 to 1
	0 to 37.8	32 to 100	50 to 110	0 to 1
	37.8 to 93.3	100 to 200	75 to 250	1
	93.3	Over 200	350 to 550	2

# NSF CATEGORY CODE LETTERS

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 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.

Compounds containing isomers of dichlorobenzene, or other substances toxic by inhalation, may be used only in areas where there is adequate ventilation to prevent accumulation of hazardous vapors.

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 food being processed.

H2 – Lubricants

These compounds may be used as a lubricant, release agent, or anti-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.

## 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.



# SPECIFICATIONS

## PRODUCT SPECIFICATIONS AND QUALIFICATIONS

PRODUCT	NSF	FDA	MILITARY/FEDERAL SPECIFICATION	OTHER
218 HDP	A1 133943	–	–	–
235 SSC	A4 133964	–	–	–
273 Electric Motor Cleaner	K2 133975 K2 133976	–	–	Underwriters Lab (UL) (Aerosol Only)
274 Industrial Degreaser	C1, K1, K2 133955 C1, K1, K2 133949 (aerosol)	178.3530	–	–
276 Electronic Component Cleaner	K2 133974 (bulk) K2 133973 (aerosol)	172.882 172.884 178.3530 178.3650	–	–
277 Metal Surface Degreaser	C1, K1 134007 (bulk) C1, K1 134008 (aerosol)	172.882 172.884 178.3530	–	–
279 PCS	K2 134012	–	–	German IGI250121/29
292 Precision Degreasing Solvent	K1, K2, K3 134003 K1, K2, K3 134004 (aerosol)	178.3530 178.3570	–	–
296 Electro Contact Cleaner	K2 134002	–	–	–
294 CSD	C1, K1, K3 143867	–	–	–
346 Descaler & Chemical Cleaner	A3 133962	–	–	–
360 Phosphate-Free Cleaner	A1, A4 133961	–	–	–
390 Cutting Oil	H2, P1 134014 H2, P1 134947 (aerosol)	–	–	–
395 Tapping Lubricant	H2 133935	–	–	–
438 PTFE Coating	H2 133950 (aerosol) H2 133951 (bulk)	–	–	–
601 Chain Drive Pin & Bushing Lubricant	H2 133927 (aerosol) H2 133979 (bulk)	–	–	–
610 Synthetic Lubricating Fluid	H2 133972 (aerosol) H2 133971 (bulk)	–	–	–
615 HTG #1	H2 133941	–	–	–
615 HTG #2	H2 133940	–	–	–
622 White Grease	H1 133929	178.3570 177.1550	–	–
625 CXF	H1 138414	178.3620 178.3570	–	–
629 High Temperature White Grease	H1 133936	178.3570 177.1550	–	–
630 SXCF	H1 138415 (bulk) H1 142462 (aerosol)	178.3570	–	–
636 FG SLF-220	H1 147202	178.3570	–	–
651 Detergent Lubricating Oil	H2 133946 (bulk) H2 133928 (aerosol)	–	–	–
652 Pneumatic Lubricant & Conditioner	H2 133944	–	–	–
660 Silicone Lubricant	H1 133970 (aerosol) H1 133932 (bulk)	181.28 178.3910 178.3570 178.884 178.3650	–	–
662FG Barrier Fluid 22	H1 143837	–	–	–
690FG Lubricant	H1 133933 (aerosol) H1 133969 (bulk)	178.3620	–	–
706 Rustsolvo®	H2 133942	–	–	–
710 Anti-Seize Compound	H2 133958	–	MIL-A-907	QPL-907

# SPECIFICATIONS

## PRODUCT SPECIFICATIONS AND QUALIFICATIONS

PRODUCT	NSF	FDA	MILITARY/FEDERAL SPECIFICATION	OTHER
715 Spraflex® Standard and Gold	H2 133938 H2 133934 (aerosol) H2 133930 (Gold) H2 133931 (Gold aerosol)	—	—	—
723 Sprasolvo® 723FG Sprasolvo®	H2 133939 H1 134006 (FG)	— 172.884 178.3620 178.3650 178.3570	—	—
725 Nickel Anti-Seize Compound	H2 133959	—	MIL-A-907	—
730 Spragrip®	P1 133947	—	—	—
740 Heavy Duty Rust Guard	—	—	MIL-C-16173D Grade 1 & 4	—
752 Cold Galvanizing Compound	—	—	MIL-P-46105 MIL-P-26915 MIL-P-21035	—
775 Moisture Shield	H2 134015	—	MIL-C-81309D TYPE II MIL-C-16173D TYPE III	—
785 Parting Lubricant (Bulk)	H2 133960	—	DVGW	—
785 FG Parting Lubricant	H1 132237	—	—	—
787 Sliding Paste	H2 133956	—	—	—
800 GoldEnd® Tape	H1, P1 134016	177.1615 177.1550	MIL-T-27730A	Underwriters Lab USA (UL) Canada (ULC) DVGW 96.01e907 EN751-3 OXYGEN CERTIFIED, BAM Ref. No. 11.1/46 513
801 Industrial & Marine Solvent	A1, A4, A8 133965	—	—	—
803 Industrial & Marine Solvent II	A1 133966	—	—	—
820 KPC	A1 133963	—	—	—
820N KPC	A1, A4 133977	—	—	—
860 Moldable Polymer Gasketing	P1 134017 (aerosol) P1 134018 curing	175.300 177.2600	—	—
900 GoldEnd® Paste	H2, P1 133957	—	—	Underwriters Lab (UL)
3500 Valvelon®	P1 134013	—	—	—



# GLOSSARY OF TERMS

## ACGIH TLV

The American Conference of Government Industrial Hygienists (ACGIH) Threshold Limit Values (TLV) are 8-hour Time-Weighted Average (TWA) concentrations which should not be exceeded.

Concentrations are given in parts per million (ppm) or milligrams per cubic meter (mg/m<sup>3</sup>). The higher the TLV, the safer the substance.

## API

American Petroleum Institute.

## AGMA

American Gear Manufacturers Association.

## Aromatic content

A major group of unsaturated cyclic hydrocarbons containing one or more rings, typified by benzene, which has a 6-carbon ring containing three double bonds. The vast number of compounds of this group, derived chiefly from petroleum and coal tar, are rather highly reactive and chemically versatile. The name is due to the strong and not unpleasant odor characteristics of most substances of this nature. Since most aromatics tend to have high toxicity and many are considered carcinogenic, therefore, low aromatic contents are desirable in solvents.

## Asperities

The irregular features in a contact surface.

## ASTM

American Society for Testing and Materials.

## Axial

Referring to the length of an object, for example an axial load on a shaft is parallel to the length (axis) of that shaft.

## Boundary Lubrication

That condition in which the lubricant film is discontinuous.

## Babbitt

An alloy, or mixture of metals that is softer than the metal used in the rotating components. It has a lower coefficient of friction and acts as a sacrificial component in the moving assembly; it will not gall or score the shaft. It is named for its inventor.

## CAS#

Chemical Abstracts Registry Number.

A division of the American Chemical Society that publishes a chemistry journal and assigns numbers to all chemical compounds.

## Coefficient of Friction

The coefficient of friction is the ratio of the force required to move an object and the normal force or weight of an object. The coefficient of friction is dependent upon the nature of the material. Some coefficients of friction for various materials are:

- Bronze on bronze – 0.20
- Tool steel on tool steel – 0.42
- Mild steel on mild steel – 0.57
- Hard steel on babbitt metal – 0.34

## Cone

The inner part of an antifriction bearing.

## Elastohydrodynamic Lubrication

A mode of lubrication which relies on the deformation of the contact surfaces in conjunction with the viscosity of an oil at high speeds to establish a protective film.

## EPA 17

The United States Environmental Protection Agency's voluntary toxics reduction incentive program, the "33/50" program, calls for a voluntary nationwide reduction of toxic waste.

The goal is a 33% reduction by 1992 for on-site and off-site releases and a 50% reduction by 1995.

The program asks companies to voluntarily reduce pollution caused by 17 high priority toxic chemicals.

This is a pollution prevention strategy to reduce threats to public health and the environment.

### The 17 chemicals were chosen on the basis of 3 criteria:

- They pose environmental and health concerns.
- They are high volume industrial chemicals.
- They can be reduced through pollution prevention.

### The 17 chemicals are:

Benzene, cadmium & compounds, carbon tetrachloride, chloroform, chromium & compounds, cyanides, lead & compounds, mercury & compounds, methyl ethyl ketone, methyl isobutyl ketone, methylene chloride, nickel & compounds, tetrachloroethylene, toluene, trichloroethane, trichloroethylene, xylenes.

## Flammability rating

When and where possible, the flammability of a substance was determined and listed.

### The following OSHA criteria (29 CFR 1910.106) were used to classify flammable or combustible liquids:

- Class IA flammable liquid Fl.P below 73°F (22.8°C) and BP below 100°F (37.8°C)
- Class IB flammable liquid Fl.P below 73°F (22.8°C) and BP at or above 100°F (37.8°C)
- Class IC flammable liquid Fl.P at or above 73°F (22.8°C) and below 100°F (37.8°C)
- Class II combustible liquid Fl.P at or above 100°F (37.8°C) and below 140°F (60°C)
- Class IIIA combustible liquid Fl.P at or above 140°F (60°C) and below 200°F (93.3°C)
- Class IIIB combustible liquid Fl.P at or above 200°F (93.3°C)

# GLOSSARY OF TERMS

## Flash point

The temperature at which a liquid or volatile solid gives off sufficient vapor to form an ignitable mixture with the air nearest the surface of the liquid or within the test vessel.

All measurements listed on this chart are by closed cup method unless otherwise stated. (TOC is Tag Open Cup)

## Fretting

A condition of wear characterized by grooving or lines spaced at intervals around a shaft. It can be caused by oscillating motion with small amounts of play (approx. 1 micron) in the assembly. Usually design related.

## Galling

Destructive wear of a metal surface characterized by large chunks of metal being removed.

## Hydrodynamic Lubrication

That condition of lubrication in which a continuous film separates the moving parts.

## Idler

A rotating element neither driving nor driven. It is simply used as a low friction support for a chain or belt.

## IDLH

Immediately Dangerous to Life or Health concentrations (IDLH) represent the maximum concentration from which, in the event of respirator failure, one could escape within 30 minutes without a respirator and without experiencing any escape-impairing (e.g. severe eye irritation) or irreversible health effects. These values were determined during the Standards Completion Program only for the purpose of respirator selection. IDLH values that are in brackets denote substances that are considered to be carcinogenic by NIOSH (National Institute for Occupational Safety and Health). It should be noted that carcinogenic effects were not considered in the Standards Completion Program. No listing means that a value was not available due to lack of data.

## KB value

The Kauri Butanol (KB) value is a measure of the solvent power of a hydrocarbon liquid. Kauri gum is readily soluble in butanol but insoluble in hydrocarbons. The KB value is the measure of the volume of solvent required to produce turbidity in a standard solution containing kauri gum dissolved in butanol. The higher the KB value, the more powerful the solvent.

## Kinematic

Refers to viscosity measured by its rate of flow due to its mass.

## Lubricity

A property of a lubricant to reduce friction beyond that expected by viscosity alone.

## Naphthenic

Composed of compounds of a more cyclic and/or aromatic nature; low ashing.

## Paraffinic

Composed of long straight chains of hydrocarbons.

## Poise

A unit of dynamic (sheared between moving surfaces) viscosity measurement.

## Race

The outer contact surface of a rolling element bearing.

## Radial

Referring to something perpendicular to a rotating assembly; A radial load is at 90° to the shaft.

## Rib-roller velocity

The velocity of the rollers in an antifriction bearing which will help determine the lubrication requirements of a bearing.

## SAE

Society of Automotive Engineers.

## Shock loading

A condition caused by sudden start-up or stoppage of equipment. Change in loading is rapid and places added stress, on bearing and other parts.

## Solvent

A substance capable of dissolving another substance (solute) to form a uniformly dispersed mixture (solution) at the molecular or ionic size level.

## Spalling

A condition of metal fatigue in which the surface of the metal flakes off.

## Stoke

A unit of measurement for kinematic viscosity in units m<sup>2</sup>/sec.

## SUS

Saybolt Universal Second; yet another unit for measurement of fluid viscosity.

## Timken

Test method named for bearing manufacturer of the same name.

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