

Chemical Products Trade Price Catalog

ENVIRONMENTALLY SAFE, INDUSTRIAL STRENGTH



Visit Our Website

www.comstarproducts.com

MSDS Information
Technical Data
Product Bulletins

ComStar International Inc.

www.comstarproducts.com

20-45 128th St., College Point, NY 11356

Tel (718) 445-7900 Fax (718) 353-5998

Toll-Free 1-800-328-0142



Setting the standard for a safer environment since 1970

ComStar and you, helping preserve our natural resources.

Our pine tree symbol on the following pages indicates which products are environmentally friendly. These products will not adversely affect or harm the air, water or ground; nor do they contain any chemicals currently listed as carcinogens or reproductive toxins. Those components that are not readily biodegradable are derived from and ultimately return to nature as soluble sodium or potassium compounds. They are among the earth's most common chemical components.

• Air Conditioning • Refrigeration • Heating • Plumbing • Precision Cleaning • Transportation • Indoor Air Quality / Odor Control

Table of Contents

Product Names

134a Refrigerant	6	Freeze Free Anti-Freeze	17	Power Clean	34
ABS Cement/Cleaners	30, 31	Freeze Free Hydrometer	17	Premium Engine Oil	32
Acid Brushes	23	Freeze Safe	7	ProFrost	7
Acid Out (Neutralizer)	4	Frost Free	8	Propylene Glycol	7
Acid Spill Neutralizer	3	Fuel Anti-Bacteria	15	Protecta Coat	14
Acid Test Kit	4	Fuel Spill Sponge	15	Pure Air	4, 16, 39
Air Gone	18	Furnace Cement	19	Pure Lye	27
Algae Destroyer	11	Gas Level Indicator	16	PVC Cement (Clear, Gray)	30
Alkybenzene Oil	10	Geothermal Fluids	17	Quick Clean Hand Soap	23
All Clean	34	Glass Cleaner	41	Quick Flow	27
All Coil Cleaner	3	Gloves, Disposable - Nitrile	23	R12 & R22 Replacements	6
All Purpose Cement	31	Grease Away	11, 21	Refresh	40
All Purpose Cleaner/Solvent	31	Grease Blaster	11, 22	Refrigerant	6
Anti-Clog	5	Grease Cut	22	Refrigeration Oils	9, 10
Anti-Foam	12	Grease Gone	37	Renew	35, 40
Anti-Freeze	7, 8, 9, 17	Green Clean	35	Renew Cream	41
Bearing Assembly Lube Oil	32	Grime Buster	2, 10	Revive	40
Belt Dressing	33	Hand Cleaners	23	Root Gobbler	28
BioFuel Treat	14	HD Drying Rinse Aid	39	RV Grade Freeze Free	17
Blow Out	27	Hot Power	27	Scale Removal	12, 13
Blue Joint Thread Sealant	29	HVAC Odor Clean	5	SFF-10	36
Boggy Clean	36	Hydro Lax	18	SFF-10 AL	37
Boil A Coil	19	Hydro Seal	18	SFF-10 TB	36
Boiler Seal Powder	19	Ice Clean	13	SFF-20	34
Boiler System Cleaner	18	Ice Free	15	Safe!	15
Boiler Treatment	18	Ice Machine Cleaner	13	Safe Liquid	15
Bond It (Chamber Glue)	20	Ice Man Sanitizer	13	Seal a Bowl w/ring	31
Bottle Sprayers	23	Ice Melt	23	Seal Joint #55 Thread Sealant	29
Brushes	23	Kaowool Strip, Rope	26	Season Prep	12
Calci Gone	12	Kleer Out	29	Septic Soap Digester	29
Car Wash Detergent	38	Kymcare	35	Septic Tank & Cesspool Clnr	28
CF-20	1	Kymcare "Plus"	35	Shake It Hand Soap	23
CF-40	1	Leak Seek	13, 20	Shiny Bowl Cleaner	28
CF-20 Flush Injector	1	Leak Seek Blue	14, 20	Shoe Covers - Disposable	23
CF-20 System Pump	1	Lime Dissolver	12, 19, 28	Silicone Spray	33
Chem Vac	21	Lime Dissolver "Plus"	12, 28	Sky Blue	41
Chem Vac Buckets	21	Liquid Plug	19	Sludge Solve	15
Cherry Bomb (deodorant)	4, 16, 39	Liquid Safe	15	Solder, No Heat	14, 30
Clean King	39	Liquid Scale Inhibitor	12	Soot Broom	21
Closet Bowl Rings	31	Lithium Bromide	8	Soot Sticks	21
Co2 Dran Blaste Gun	5	Lock Joint Thread Sealant	29	Soot Cleaner Metal Pump	20
Co2 Cartridge	5	Lube Tube	32	Soot Cleaner Spray	20
Coil Cleaners	1, 2	Metal Clean	35	Soot Cleaner Refill	21
Coil Coating	14	Metal Epoxy	14	Sprinklee Safe	9
Coil King	2	Metal Spray Can	23	Spritz	21
Coil King Powder	2	Metal Lock Black	14	Steam Clean	18
Coil Safe	2	Micro Channel Power Clean	2	Steam Away	38
Com Koil	2	Micro Surge	28	Super Clean	34
Combustion Chambers	24, 25, 26	Mineral Oil (Refrigeration Oil)	9	Super Fantastic Foam	10, 22
Condensate Pan Drain Opener	6	Mint Bomb (Deodorant)	4, 16, 39	Super Grease Cutter	10, 22
Condenser Coil Brightener	1, 2, 3	Mo Clean	35	Super Heat	14
Contact Cleaner	11, 23	Monkey Wrench	32	Sure Joint Thread Sealant	29
Copper Lock	30	Moisture Trap	1	Sweet Air Pellets	5, 16
Corrosion Inhibitor PG/EG	17	Multi Clean	38	Sweet Air Powder	5, 16, 40
Corrosion Preventor #1	11	Multi Seal Thread Sealant	29	Sweet Air Spray	5, 16, 40
CPVC Cement	30	Munch	27	Sweet Air Deodorizer, Concentr.	39
CPVC Primer	31	Muriatic Acid 20 & 20 %	40	Thread Locker	30
Crystal Scale Inhibitor	13	Nickel Safe Ice Machine Clr.	13	Thread Sealants	29
Cutting Oil (Oil in One)	32	No Mess	33	Tire Protectant/Shine	37
Degreasers	10, 11, 21, 22	No Run	40	Tire Rim Cleaner	38
Degrease 20+	11	Odor Control Products	4, 16, 39, 40	Trace A Leak	13
Degrease 40+	38	Odor Eliminator	5, 16, 40	Truck Body Cleaners	38
Deodorants	4, 5, 16, 39	Oils	9, 10, 32, 33	Ultra Clean	34
Descalers	12, 13, 19	Orange Bomb (Deodorant)	4, 16, 39	Vacuum Pump Oil	33
Dirty Sox	4	Paint Remover	36	Valuline Coil Cleaners	3
Drying/Rinse Aid	39	Paint Strip	36	Vermiculite Filler	26
Duct Clean	5	Pan Jelly	6	Vinyl Armor	37
Easy Putty (Plumber's Putty)	31	Pan Pills	6	Wasp & Hornet Killer Spray	9
Electric Motor Oil	32	Parts Cleaners	34, 35, 36	Waste Pipe Openers	27, 28
Enviro Clean PC	34	Patch All	19	Water Absorber	15
Ethylene Glycol	8	Perch	23	Water Detecting Paste	15
Evaporator Coil Cleaner	2, 3, 4	Perma Flux	30	Water Glass Glue	20, 26
Faucet & Valve Stem Lubricant	33	PG/EG Corrosion Inhibitor	17	Water Repellant Finish Remover	41
Fiber Glass Sheen	41	Pipe Cool	30	Water Treatments	11, 12, 13
Fire Protech	8	Pipe Dope Brushes	23	White Brite	41
Fire Safe	8	Piranha	27	White Wall Tire Rim Cleaner	38
Foamy Clean	10, 22	Piranha II	27	Windshield Wash Fluid	41
Foamy Coil	1	Plumber's Plunger	27	Zip Clean	34
Foaming Non-Acid Coil Clr.	3	Polyol Ester Oil	9	Zip Clean 100	35
		Powdered Concrete Cleaner	39		



A/C, Refrigeration & Indoor Air Quality Chemicals

Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
Interior Coil Cleaners					
 <p>CF-20™ Internal Refrigeration Coil System Cleaner</p> <p>Cleans interior coils after burnouts or before retrofits. Perfect to clean line sets, see our flush injector. </p>	90-500	1 gal. (4)	4	39	221.76
	90-501	5 gal.	1	45	265.70
	90-502	55 gal.	1	95	2,784.00
	Patent No. 5,643,860				
 <p>CF-20 FLUSH INJECTOR™ Reusable Internal System Cleaner</p> <p>Fast & easy to flush out oils and contaminants from line sets, coils, & tubing. Hook up to nitrogen supply for pressurization. Use CF-20 to flush out lines.</p>	75-502	32 oz.	1	4	259.90
 <p>CF-20 PUMP™ Internal Refrigeration Coil System Cleaner & Oil Transfer Pump</p> <p>Good for systems up to 10 ton.</p>	75-500	Tool Kit Size 115v/60	1	7	525.80
	75-501	Tool Kit Size 230v/50	1	7	850.00
 <p>CF-40™ Cascade System Internal Coil Cleaner</p> <p>Designed for cascade and super low temp systems with complex lines & vaporates intirely.</p>	90-503	1 gal. (4)	4	36	272.80
	90-504	5 gal.	1	44	338.30
	90-505	55 gal.	1	495	3,660.00
 <p>MOISTURE TRAP™ Refrigerant System Dehydrant</p> <p>Seeks out moisture, bonds to it and prevents system freeze up and acid formation. Frees up frozen system. </p>	90-318	4 oz.	12	3	119.52
Premium Exterior Condenser & Evaporator Coil Cleaners & Brighteners					
 <p>FOAMY COIL™ Condenser Coil Cleaner & Brightener</p> <p>Heavy duty non-acid, high foaming coil cleaner. Removes airborne debris, grease and oil. Brightens coils.</p>	90-184	1 gal.	4	30	103.60












(See Next Page)



(1) Brush Dauber in Can (2) Blister Card (3) Squirtspout (4) Child-Resistant Cap



A/C, Refrigeration & Indoor Air Quality Chemicals









Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
Premium Exterior Condenser & Evaporator Coil Cleaners & Brighteners cont'd					
 <p>COIL KING™ External Condenser Coil Cleaner and Brightener - Alkaline Non-acid, heavy foaming brightener & cleaner for evaporator & condenser coils. Heavy duty, heavy foamer </p>	90-099	1 qt. (4)	12	30	73.68
	90-100	1 gal. (4)	4	30	87.60
	90-102	5 gal.	1	5	104.50
	90-103	55 gal.	1	450	1,119.80
 <p>MICRO CHANNEL POWER CLEAN™ Condenser Coil Cleaner Foams and cleans Micro Channel Condensers with protection coating. Will not harm metal or coatings. Will penetrate deep into coil and push out airborne dirt.</p>	90-120	20 oz. Aerosol	12	13	139.20
	90-121	1 gal.	4	34	116.00
	90-122	5 gal.	1	42	143.00
 <p>GRIME BUSTER™ Dirt & Grease Stripper - Condenser Coil Cleaner Very effective as a fast coil cleaner with powerful flushing action. For hard to reach places. Fast drying, non-flammable and non-conductive. * Pleasant Lemon Scent</p>	90-300	20 oz. aerosol	12	13	139.20
 <p>FOAMY CLEAN™ No Rinse Coil Cleaner Great on evaporator coils and many other surfaces. Self rinsing with fast breaking foam. Cleans and deodorizes. </p>	55-099	20 oz. aerosol	12	13	139.20
 <p>COIL KING POWDER™ Powdered External Condenser Coil Cleaner and Brightener Just add water. Yields 1 gallon, non-acid, foaming cleaner & brightener. Transport safe. </p>	90-110	18 oz.	12	14	164.64
 <p>COIL SAFE™ External Evaporator Coil Cleaner - Neutral pH Non-acid, non-alkaline, non-toxic. Self-rinsing. Original winning formula. </p>	90-299	24 oz. w/ spray	12	19	90.00
	90-298	1 gal. (4)	4	33	92.00
	90-297	5 gal.	1	45	104.00
	90-296	55 gal.	1	450	1,080.20
 <p>COM KOIL™ External Condenser Coil Cleaner & Brightener - Acid Foaming acid cleaner. Heavy duty pink standard.</p>	90-149	1 qt. (4)	12	30	85.92
	90-150	1 gal. (4)	4	30	92.40
	90-151	5 gal.	1	45	111.10
	90-152	55 gal.	1	460	1,180.30



(1) Brush Dauber in Can (2) Blister Card (3) Squirtsput (4) Child-Resistant Cap



A/C, Refrigeration & Indoor Air Quality Chemicals

Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
Premium Exterior Condenser & Evaporator Coil Cleaners & Brighteners cont'd					
 <p>ALL COIL CLEANER™ Univeral Coil, Fan & Filter Cleaner Cleans and deodorizes Evaporator & Condenser coils, metal air filters, registers and mechanical equipment. Safe but strong.</p> 	90-180	1 gal.	4	30	119.60
	90-181	5 gal.	1	45	145.90
 <p>ACID SPILL NEUTRALIZER POWDER™ Acid Coil Cleaner Neutralizer Fast absorbing. Avoids harmful damage. Sprinkle on acid waste water to neutralize PH and transform to harmless liquid.</p>	90-155	1.5 lbs.	12	20	81.84
Valuline Series Exterior Condenser & Evaporator Coil Cleaners & Brighteners					
 <p><i>ValuLine Series</i> FOAMING NON-ACID COIL BRIGHTENER & CLEANER™ Condenser Coil Cleaner & Brightener Biodegradable, concentrated cleaner. Perfect for 3 gallon sprayer, add 2 gallons of water and one bottle of the "Valunive" Coil Cleaner.</p> 	90-900	1 gal. (4)	4	30	53.84
 <p><i>ValuLine Series</i> CONDENSER COIL BRIGHTENER & CLEANER™ Heavy Duty Condenser Coil Cleaner & Brightener Foaming acid-based cleaner. Perfect for 3 gallon sprayer, add 2 gallons of water and one bottle of the "Valunive" Coil Cleaner.</p>	90-920	1 gal. (4)	4	30	54.72
 <p><i>ValuLine Series</i> EVAPORATOR COIL CLEANER™ Self Rinsing A/C Evaporator Coil Cleaner Biodegradable, non-toxic, neutral pH. Perfect for 3 gallon sprayer, add 2 gallons of water and one bottle of the "Valunive" Coil Cleaner.</p> 	90-910	1 gal. (4)	4	30	53.84





(1) Brush Dauber in Can (2) Blister Card (3) Squirtsput (4) Child-Resistant Cap




A/C, Refrigeration & Indoor Air Quality Chemicals


Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
---------	-----------	------	----------------	--------------	-------------------


Acid Neutralizer, Remover And Test

 <p>ACID OUT™ Compressor Burnout Acid Neutralizer & Remover Removes acid, leaves no residue. Can be used with all refrigerants and oils. Fast, effective and protects the compressor.</p>	90-310	4 oz.	12	5	304.32
	(Point of Purchase Display)				
 <p>ACID TEST KIT™ Acid Test For All Refrigeration Oils 4 Test kits per container. Results in seconds. Biodegradable and non-flammable. Get 4 tests for the price of one. Safe with all types of oils.</p>	90-311	4 test x 12 kits	12	6	224.64
	(Point of Purchase Display)				

Indoor Air Quality & Odor Control Products

 <p>PURE AIR™ Gel Cup, Spray, Powder & Pellets Odor Neutralizer Turns unwanted odors into pure smelling air. Good for vehicles, rooms, ducts, air handling units, ventilation systems and more. Eliminates odors from stagnant air, garbage, smoke, mildew & musk, animal and human waste, vomit, decay & more.</p>	60-225 (note)	8 oz. gel	12	7	104.40
	60-226	3 lb. gel tub	6	18	179.52
	60-220	16 oz. w/ spray	12	13	123.36
	60-221	1 gal. (4)	4	33	295.68
	60-222	1 lb. powder	12	13	104.40
	60-223	1 lb. 5 oz. pellets	12	16	109.68
Note: Point of Purchase Display					

 <p>ODOR BOMB SERIES™ Heavy Duty Deodorant Gel Cups Odor deodorizer. Leave cap open for long-lasting, pleasant scents. Great for hard to rid odors. Available in strong but pleasant scents: Cherry, orange or mint long lasting and very effective.</p>	Cherry Bomb				
	60-621	8 oz.	12	6	104.40
	Orange Bomb				
	60-625 (Gel cup)	8 oz.	12	6	104.40
	60-627 (absorbant powder)	1 lb.	12	13	104.40
	60-628 (spray)	16 oz.	12	13	125.52
	Mint Bomb				
	60-630 (gel cup)	8 oz.	12	6	104.40
	60-631 (absorbant powder)	1 lb.	12	13	104.40
	60-632 (spray)	16 oz.	12	13	125.52
Combo Pac - 4 each Cherry / Orange / Mint Bomb					
60-635 (gel cup)	8 oz.	12	6	104.40	

 <p>DIRTY SOX™ Small A/C System Odor Neutralizer & Cleaner Eliminates "dirty socks" odors from coils & humidifier filters. Perfect for split systems or heat pumps, any system with unwanted odors.</p>	90-655	20 oz. aerosol	12	13	132.00
	90-656	1 gal.	4	33	180.24
	90-657	5 gal.	1	42	213.70



(1) Brush Dauber in Can (2) Blister Card (3) Squirtsput (4) Child-Resistant Cap





AC Zero Leak

Your Optimal Solution
For AC Leak Repair
& Prevention

Applications

AC Zero Leak is ideal for a broad range of applications:

Automotive AC systems



Refrigeration systems



Residential Systems



Polymer-based leak stops can harden (as shown above) and cause significant, costly damage to system components. AC Zero Leak is polymer-free.

Leaks, large or small, can lead to big problems

Some air conditioning and refrigeration system leaks are no wider than a human hair ($300\ \mu\text{m}$). But even the smallest leaks let refrigerant and oil escape into the atmosphere. As a result:

- The system must work harder, which uses more energy and shortens component life.
- The loss of refrigerant increases friction, wear and risk of equipment damage.

AC Zero Leak: no polymers, no clogs, no worries

ComStar International offers leak stops for automotive and residential AC applications. AC Zero Leak is polymer-free, offering a distinct advantage over many competitive formulations that may contain potentially damaging polymers.

By using AC Zero Leak you can:

- Seal leaks safely, without damaging system components
- Avoid the hassle and expense of replacing seals or other parts
- Save energy
- Prolong the life of system components
- Stop corrosion from spreading

Key Benefits

- Specially formulated to stop small leaks in evaporators and condensers as well as around gaskets and seals
- Designed not to harm AC systems
- Non-hardening, polymer-free
- Compatible with POE-based, PAG-based and mineral-oil-based mobile AC lubricants
- Can also be used for preventive maintenance

ComStar International AC Zero Leak

AC Zero Leak

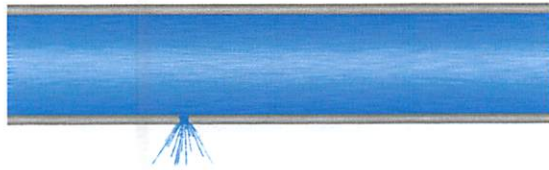
Instructions

1. Start air conditioning/refrigeration system, and set cooling controls to coldest setting.
2. Insert recommended dosage into oil injector.
3. Connect oil injector to low-side service port.
4. Recharge system with refrigerant (consult owner's manual).

Treat Rates

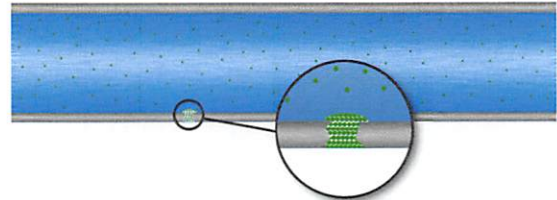
Refrigerant load	Recommended dosage
< 1 kg (< 2.2 lb)	60 ml (2.0oz) (typical for most vehicles)
< 1.5 kg (< 3.3 lb)	90 ml (3.0 oz)
< 3 kg (< 6.6 lb)	180 ml (6.1 oz)
< 5 kg (< 11 lb)	300 ml (10.1 oz)

Before AC Zero Leak



Refrigerant and oil are drawn to the leak site, where they escape into the atmosphere.

After AC Zero Leak



AC Zero Leak flows to the leak site, where it activates to form a flexible seal.

How can we help?

ComStar International can provide you with the ideal lubricant, cleaner or flushing fluid based on your customers' operating environments, run times and desired preventive-maintenance schedules. For more information about these or other ComStar International products, please contact your sales representative at. We can help you make an appropriate choice for your specific needs.



ComStar International
20-45 128th Street
College Point, NY 11356
(800) 328-0142



AC Zero Leak AC Leak Stop

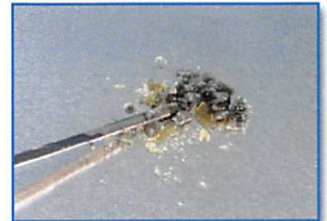
A. Safely Seal Leaks

Air conditioning and refrigeration leaks typically occur as a result of corrosion. This corrosion may be caused by the presence of corrosive elements that form when refrigerants mix with moisture. These corrosive elements slowly eat away at the metal components within the air conditioning/refrigeration system such as the condenser and evaporator. The result may be a very small leak, sometimes no wider than a human hair (300 μm), which slowly leaks refrigerant into the atmosphere. Since these leaks are not visible to the human eye, they can be very hard to locate and repair.

AC Zero Leak is designed to reduce this corrosion and seal these types of leaks safely. AC Zero Leak will not clog air conditioning/refrigeration system components and can even be used for preventative maintenance.

B. Problems with Competitive Leak-Stop Formulations

Polymer-based leak-stop formulations, used by many competitors, seal leaks by hardening to form a patch. These leak stops are moisture activated, relying on the condensation that typically forms around the leak site to activate the additive. The problem with polymer-based leak stops is that they will activate in the presence of any moisture, including moisture within the refrigeration system. This presents a significant problem: The hardened polymer can clog valves and expansion orifices and damage the air conditioning compressor. Polymeric leak stops have also been shown to damage air conditioning installation and recycling equipment.



Polymer-based leak stops can harden (as shown above) within the air conditioning or refrigeration system, causing significant damage to components.

C. AC Zero Leak Safely Seals Without Harming Equipment

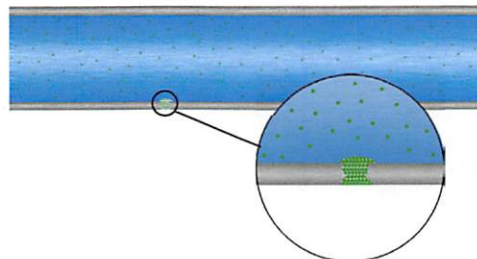
Once injected into an air conditioning/refrigeration system, AC Zero Leak flows with the escaping refrigerant to the leak site where the pressure difference activates the additive. The activated additive molecule is polar in nature and preferentially bonds the jagged metal edges of the leak site. Shortly, enough of the additive accumulates around the leak site to form a flexible seal that plugs the leak. This flexible seal is preferred over the hard patch formed by polymer-based leak stops because it holds up better to vibrations and changes in temperature (on/off cycles) and also is engineered not to form around critical components like expansion orifices and shradar valves.

In addition, AC Zero Leak effectively stops leaks around dried, cracked and shrunken seals, gaskets and O-rings — all of which have been shown to be responsible for most refrigerant leaks — because it is formulated with advanced, seal-restoring additives.

AC Zero Leak is typically effective within 15-30 minutes.



Refrigerant and oil are drawn to the leak site where they eventually escape into the atmosphere.



Once injected into an air conditioner or refrigeration system, AC Zero Leak flows to the leak site. The pressure differential between the refrigeration system and the atmosphere causes the additive to activate. It begins to coagulate, sealing the leak site with a flexible seal.



AC Zero Leak AC Leak Stop

D. Refrigerant and Lubricant Compatibility

AC Zero Leak is formulated to be compatible with most refrigeration lubricants and leak stops. It can be added into virtually any air conditioning system, including commercial and industrial air conditioning/refrigeration systems.

E. Container Types

AC Zero Leak can be exposed to the atmosphere for extended periods of time and still remain usable. This is especially useful for professionals who may want to purchase the additive in bulk containers. Because of its stability, this formulation also can be used with hand injection tools.

F. Treat Rates

<u>Refrigerant Load</u>	<u>Recommended Dosage</u>
< 1 kg (< 2.2 lb)	60 ml (2.0 oz) (typical for most automobiles)
< 1.5 kg (< 3.3 lb)	90 ml (3.0 oz)
< 3 kg (< 6.6 lb)	180 ml (6.1 oz)
< 5 kg (< 11 lb)	300 ml (10.1 oz)

G. Directions

1. Start air conditioning/refrigeration system and set controls to coldest setting.
2. Insert recommended dosage into oil injector.
3. Connect oil injector to low-side service port.
4. Recharge system with refrigerant (consult owners manual).

H. Typical Properties

<u>Typical Properties</u>	<u>AC Zero Leak</u>
Viscosity @ 40°C (cSt)	240
Viscosity @ 100°C (cSt)	24.2
Viscosity Index	127
Flash Point °C	232
Auto-Ignition Point °C	387
Pour Point °C	-35

A/C, Refrigeration & Indoor Air Quality Chemicals

Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
---------	-----------	------	----------------	--------------	-------------------

Indoor Air Quality & Odor Control Products cont'd



HVAC ODOR CLEAN™

Odor Eliminator & Cleaner

Safely cleans and eliminates odors in ducts, filters, small a/c and refrigeration systems and vents due to mold, bacteria, grease & tobacco. No chemical scent.



90-650	32 oz.	12	22	134.40
90-651	1 gal.	4	40	170.96



ODOR ELIMINATOR™

Heavy Duty Odor Neutralizer

Spray on chemical spill after clean up to eliminate all trace of the odor. Works like no other oil & chemical odor eliminator.



60-215	32 oz. spray	12	20	208.08
60-216	1 gal. (4)	4	4	235.20



SWEET AIR SPRAY™

Fuel Odor Neutralizer

Deodorizes unwanted odors. Pleasant cherry scent. Fast odor eliminator.



60-520	20 oz. aerosol	12	12	121.20
--------	----------------	----	----	--------



SWEET AIR POWDER AND PELLETS™

Odor Remover and Absorbent

Deodorizes fuel and other unwanted odors. Pleasant cherry scent, absorbs and deodorizes. Eliminate odors fast.



60-620 (powder)	15 oz.	12	9	108.00
60-623 (powder)	5 gal.	1	20	67.00
60-622 (powder)	55 gal.	1	220	773.86
60-619 (pellets)	1 lb. 5 oz.	12	16	103.92



DUCT CLEAN™

Air Duct Cleaner

Designed for cleaning vents, registers and air ducts. Heavy duty. No chemical scent.



90-307	1 qt. w/ spray	12	25	134.40
90-308	1 gal. (4)	4	40	152.48
90-309	5 gal.	1	50	173.30

Condensate Pan Products



CO2 DRAIN BLASTER GUN™

Condensate Drain Opener

Fast, easy drain opener using a Co2 cartridge flush.

00-100	N/A	12	6	299.40
--------	-----	----	---	--------



CO2 CARTRIDGE™

Replacement Co2 threaded cartridges for extra safety.

00-101	Box of 12	12	2	43.90
--------	-----------	----	---	-------

ANTI-CLOG™

Drain Pan Slime Preventor

EPA Registered. Controls build up of slime and harmful bacteria including Legionnaire's disease in air conditioning and refrigeration system. In sealed, tamper proof plastic housing. One per season.



services

90-559 (strip)	1-3 ton units	24	3	180.00
90-660 (square)	5 ton units	24	3	249.60
90-661 (Rectangle)	15 ton units	12	3	190.80

(See Next Page)






(1) Brush Dauber in Can (2) Blister Card (3) Squirtspout (4) Child-Resistant Cap








A/C, Refrigeration & Indoor Air Quality Chemicals

Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
---------	-----------	------	----------------	--------------	-------------------

Condensate Pan Products cont'd.

 <p>PAN JELLY™ Condensate Pan Treatment Unique jelly will last 3 months and can be used for all size systems. Has special long snout for easy applicaion. Just load snout, aim and squeeze.</p>	90-325	4 oz.	20	5	278.00
 <p>PAN PILLS™ Condensate Pan & Humidifier Treatment Easy to use pills prevents clogging, objectionable odors, scale and corrosion. Long-Lasting. Leave in condensate pan.</p>	90-319	10 pills	12	4	47.52
	90-320	Approx. 120 pills (4)	12	10	276.00
 <p>CONDENSATE PAN DRAIN OPENER™ Liquid Pan Drain Cleaner Clears drain blockage fast. Eliminates slime, odors and organic material. Removes drain blockages fast.</p>	90-315	1 qt. (4)	12	30	97.20
	90-316	1/2 gal. (4)	6	30	90.12

Refrigerants

 <p>134a Refrigerant™ An HFC refrigerant with similar properties to R-12. Use for automotive a/c, refrigeration and freezer appliances and self-contained low and medium temperature refrigeration applications.</p>	90-800	30 #	1	34	318.00
 <p>RS-24 (R426A)™ Only HFC Drop-in replacement for R-12</p>	<u>GREEN REPLACEMENTS FOR R12, R22, R502</u>				
	RS-24	30 lb.	1	33	461.40
 <p>RS-44 (R424A)™ HFC Drop-in replacement for R-22. High & med. temp. systems.</p>	RS-44	24 lb.	1	27	382.66
 <p>RS-45 (R434A)™ New OEM systems, alternative to R410A, R404A & R407C. HFC Drop-in Replacement for low temp R-22 chiller systems.</p>	RS-45	25 lb.	1		347.00
 <p>RS-52 (R428A)™ HFC Drop-in replacement for R502 and low temp R-22.</p>	RS-52	24.2 lb.	1	27	339.16



(1) Brush Dauber in Can (2) Blister Card (3) Squirtsput (4) Child-Resistant Cap



A/C Easy Pass™

System Boost Additive



ComStar's A/C Easy Pass boosts the system's efficiency and improves the flow of refrigerant and oil through a system. It increases corrosion protection, prevents TEV sticking and unclogs expansion devices.

- *Good with all oils & refrigerants*
- *Prevents expansion devices from sticking and clogging*
- *Improves heat transfer*
- *Reduces system noise*
- *Elevates energy efficiency*
- *Good with old and new systems*
- *4 oz. per 5 tons*



For All Oils!

STOCK NO. 90-725

4 oz. applications



For all refrigerants!

Prevents TEV Sticking



ComStar

A/C, Refrigeration & Indoor Air Quality Chemicals

Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
Propylene Glycol Chiller / Heat Transfer Fluids					
FOR: Water Chillers, Refrigeration Systems, Food Processing, Thermal Storage, Computer Room Cooling, Solar Systems, Heating & Cooling Loops, Sprinkler and Radiant Heating Systems (For Boiler Systems, see Boiler Anti-Freeze Section)					
 PROFROST™ Anti-Freeze, Non-toxic, 100% Propylene Glycol For food or sensitive applications required for chillers. (Note 1)	35-714	5 gal.	1	42	MARKET
	35-715	55 gal.	1	480	
 PROFROST - I™ Anti-Freeze, Non-toxic, 100% Propylene Glycol with Corrosion Inhibitor (Note 1)	35-720	5 gal.	1	42	MARKET
	35-721	55 gal.	1	480	
 PROFROST - CI™ Anti-Freeze, Non-toxic, 100% Propylene Glycol with Corrosion Inhibitor & Color (Note 1)	35-723	5 gal.	1	42	MARKET
	35-722	55 gal.	1	480	
 FREEZE SAFE™ Anti-Freeze, Non-toxic Valuline Propylene Glycol blend with Corrosion Inhibitor & Color (Note 1)	35-760	1 gal.	4	34	MARKET
	35-761	5 gal.	1	42	
	35-762	55 gal.	1	480	
 PG Food Quality™ Chiller Pre-Mix 40% With Corrosion Inhibitor Ready to use. (Note 1)	35-711	5 gal.	1	42	MARKET
	35-712	55 gal.	1	480	
 PG, 100% Food Grade - USP/EP™ (Note 2)	35-800	5 gal.	1	42	MARKET
	35-713	55 gal.	1	480	



BOTH PG Food "Quality" and Food "Grade" can be used where food is processed.

Note 1 • PG Food Quality can be used in refrigeration and other mechanical systems where foods, feeds and drugs are processed, but where it would not come in direct contact with the food, feed or drugs.

Note 2 • PG Food Grade meet current Food Chemicals codex For USP industry standards. PG Food Grade may be used in foods, feeds, drugs or their containers.



A/C, Refrigeration & Indoor Air Quality Chemicals

Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton	
Ethylene Glycol Chiller / Heat Transfer Fluids						
FOR: Water Chillers, Refrigeration Systems, Food Processing, Thermal Storage, Computer Room Cooling, Solar Systems, Heating & Cooling Loops, Sprinkler and Radiant Heating Systems (For Boiler Systems, see Boiler Anti-Freeze Section)						
	FROST FREE™ 100% Ethylene Glycol No inhibitors, no color. (Note 2)	35-707	5 gal.	1	42	MARKET
		35-708	55 gal.	1	480	
	FROST FREE - I™ 100% Ethylene Glycol With Corrosion Inhibitor (Note 2)	35-716	1 gal.	4	34	MARKET
		35-717	5 gal.	1	42	
	35-718	55 gal.	1	480		
	FROST FREE - CI™ 100% Ethylene Glycol With Corrosion Inhibitor & Color (Note 2)	35-719	5 gal.	1	34	MARKET
		35-710	55 gal.	1	480	
	ETHYLENE GLYCOL™ Chiller Pre-Mix 41% with Corrosion Inhibitor Ready to use. (Note 2)	35-704	5 gal.	1	42	MARKET
		35-705	55 gal.	1	480	
NOTE 2: ALL Ethylene Glycol products can be used in refrigeration and other mechanical systems where it would not come in direct contact with or the processing of food, feeds, drugs or their containers.						
Specialty Sprinkler & Chiller Fluid						
	LITHIUM BROMIDE™ Specialty Chiller Fluid	00-012	55 gal.	1	468	MARKET PRICE
	FIRE SAFE™ Glycerine Anti-Freeze for Wet Fire Protection Sprinkler Systems with CPVC Components, Protects to -15° F	35-765	5 gal.	1	42	111.88
		35-766	55 gal.	1	480	1176.00
	FIRE PRO TECH™ Glycerine Anti-Freeze "Pre-Mix" for CPVC Sprinkler System. Provides -43° F Protection	35-763	5 gal.	1	45	197.90
		35-764	55 gal.	1	515	1,064.00
	FIRE PRO TECH - 100™ 100% Glycerine Anti-Freeze. Blend To Desired Freeze Protection	35-778	5 gal.	1	50	323.60
		35-779	55 gal.	1	550	1,780.00



(1) Brush Dauber in Can (2) Blister Card (3) Squirtsput (4) Child-Resistant Cap



Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
---------	-----------	------	----------------	--------------	-------------------

Specialty Sprinkler & Chiller Fluid Cont'd



SPRINKLER SAFE™
Anti-Freeze Protection
for Systems with Metal
Components, No CPVC

35-768	5 gal.	1	50	99.68
35-769	55 gal.	1	550	1,086.40

Wasp & Hornet Spray



WASP & HORNET
KILLER SPRAY™
 Shoots a stream 10 feet for
 indoor and outdoor nests. Non-
 flammable, non-conductive.

90-380	17 oz. aerosol	12	13	128.88
--------	----------------	----	----	--------

Refrigeration Oils

Mineral, POE & Alkylbenzene Refrigeration Oils



MINERAL OIL™

Designed for high performance A/C & refrigeration compressors. Provides superior lubrication for today's compressors that generate higher speeds and operating temperatures. Good for low temperature performance. OEM Approved.

C-3 / GS, 150 SUS	45-001	1 gal.	6	49	237.60
C-3 / GS, 150 SUS	45-002	5 gal.	1	40	195.00
C-3 / GS, 150 SUS	45-003	55 gal.	1	440	2,125.20
C-4 / GS, 300 SUS	45-004	1 gal.	6	49	237.60
C-4 / GS, 300 SUS	45-005	5 gal.	1	40	195.00
C-4 / GS, 300 SUS	45-006	55 gal.	1	440	2,125.20



POLYOL ESTER OIL (POE)™

Designed specifically for use with HFC refrigerants. Also miscible with CFC and HCFC refrigerants as well. Our POE oils have excellent thermal, oxidative and hydrolytic stability. Compressor wear is reduced and copper plating is eliminated. OEM Approved And Biodegradable.

POE-32, 150 SUS	45-007	1 gal.	4	33	372.00
POE-32, 150 SUS	45-008	5 gal.	1	40	462.00
POE-32, 150 SUS	45-009	55 gal.	1	440	4,950.00
POE-68, 300 SUS	45-010	1 gal.	4	33	372.00
POE-68, 300 SUS	45-011	5 gal.	1	40	462.00
POE-68, 300 SUS	45-012	55 gal.	1	440	4,950.00




(See Next Page)







(1) Brush Dauber in Can (2) Blister Card (3) Squirtspout (4) Child-Resistant Cap



A/C, Refrigeration & Indoor Air Quality Chemicals

Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton	
Mineral, POE & Alkylbenzene Refrigeration Oils Cont'd.						
 <p>ALKYLBENZENE OIL™ Recommended in all A/C & refrigeration applications using CFC and HCFC specifically HCFC blends of R-401a/b, R-402a/b & R-409a. Excellent miscibility, thermal stability and compatibility</p>	Alkylbenzene 150 SUS	45-013	1 gal.	6	49	420.00
	Alkylbenzene 150 SUS	45-014	5 gal.	1	40	340.00
	Alkylbenzene 150 SUS	45-015	55 gal.	1	440	3,712.50
	Alkylbenzene 300 SUS	45-016	1 gal.	6	49	420.00
	Alkylbenzene 300 SUS	45-017	5 gal.	1	40	340.00
	Alkylbenzene 300 SUS	45-018	55 gal.	1	440	3,712.50

Mechanical Equipment Cleaners & Degreasers

 <p>GRIME BUSTER™ Dirt & Grease Stripper - Condenser Coil Cleaner Very effective as a fast coil cleaner with powerful flushing action. For hard to reach places. Fast drying, non-flammable and non-conductive. * Pleasant Lemon Scent</p>	90-300	20 oz. aerosol	12	13	139.20
 <p>FOAMY CLEAN™ No Rinse Coil Cleaner Great on evaporator coils and many other surfaces. Self rinsing with fast breaking foam. Cleans and deodorizes.</p>	55-099	20 oz. aerosol	12	13	139.20
 <p>SUPER FANTASTIC FOAM™ Foaming Water Rinse Degreaser - Heavy Foaming Use on condenser coils and other surfaces. USDA registered, biodegradable, heavy duty cleaner with pleasant lemon scent.</p>	55-221	20 oz. aerosol	12	14	139.20
	55-222	1 gal. (4)	4	48	110.00
	55-223	5 gal. pails	1	45	132.00
	55-224	55 gal. drum	1	450	1,422.30
 <p>SUPER GREASE CUTTER™ Heavy Duty Mechanical Degreaser Environmentally safe dirt and grease stripper. USDA registered, self-rinsing, bio-degradable. For use where environmentally safe cleaners are desired.</p>	55-121	20 oz. aerosol	12	16	139.20
	55-122	1 gal. (4)	4	48	110.00
	55-123	5 gal. pails	1	45	132.00
	55-124	55 gal. drum	1	450	1,422.30









(1) Brush Dauber in Can (2) Blister Card (3) Squirtsput (4) Child-Resistant Cap



A/C, Refrigeration & Indoor Air Quality Chemicals

Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
---------	-----------	------	----------------	--------------	-------------------



Mechanical Equipment Cleaners & Degreasers cont'd

 <p>GREASE BLASTER™ Heavy Duty, Light Foaming Degreaser No odor, environmentally safe, non-freezing, self-rinsing degreaser. Perfect for sensitive areas requiring no odors.</p> 	55-126	20 oz. aerosol	12	14	139.20
 <p>GREASE AWAY™ HD Degreaser Water soluble and low odor. Rapidly liquefies and lifts greasy grime for fast and easy cleaning. Great for hundreds of applications. Oils are no match for this degreaser.</p> 	55-130	1 qt. w/spray	12	19	145.20
	55-131	1 gal. (4)	4	33	101.20
	55-132	5 gal. pails	1	42	129.30
	55-133	55 gal. drum	1	450	1,331.00
 <p>CONTACT CLEANER™ Electrical Contact Spray Cleaner Burnishing cleaner with high dielectric strength. Fast drying-old classic.</p>	55-620	16 oz. aerosol	12	14	126.96
 <p>DEGREASE 20+™ Fast-drying Degreaser Heavy duty, non-flammable, non-conductive, fast-drying. No water rinse necessary.</p>	90-305	1 gal.	4	45	259.60
	90-306	5 gal.	1	55	302.50

Water Treatments

(See the following Scale Removal / Descaling Section For Lime & Scale Dissolvers And Prevention)

(See Anti-Freeze Section For Freeze Up Protection Page 7, 8 & 17)

 <p>ALGAE DESTROYER™ Cooling Water Tower Microbiocide Destroys algae on contact. EPA registered. Economical, fast and very effective.</p>	90-369	1 gal. (4)	1	9	54.46
	90-370	1 gal. (4)	4	40	211.20
 <p>CORROSION PREVENTOR #1™ Corrosion Treatment For Recirculating Cooling Water Systems Controls corrosion and inhibits scale in evaporative condensers and cooling towers (feeder required).</p>	90-373	5 gal.	1	41	173.30

(See Next Page)



(1) Brush Dauber in Can (2) Blister Card (3) Squirtspout (4) Child-Resistant Cap



A/C, Refrigeration & Indoor Air Quality Chemicals

Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
---------	-----------	------	----------------	--------------	-------------------

Water Treatments cont'd

*(See the following Scale Removal / Descaling Section For Lime & Scale Dissolvers And Prevention)
(See Anti-Freeze Section For Freeze Up Protection Page 7, 8 & 17)*



ANTI-FOAM™ Bubble Eliminator

Add to water tank and processing water systems to prevent foaming

90-385	1 gal. (4)	4	34	396.00
90-386	5 gal.	1	40	470.00

Scale Removal / Descaling



CALCI GONE™ Super Strength Color Coded Descaler

HD long-lasting calcium, lime scale remover. Color coded to let you know when scale is gone. Rated the most effective descaler on the market.

30-364	qts. (4)	12	25	103.92
30-365	1 gal. (4)	4	39	88.24
30-366	5 gal.	1	41	108.00



LIME DISSOLVER™ Cooling Tower Scale Remover

Removes scale from water towers, fins, water heater coils. New color indicator lets you know when scale is gone.

30-350	qts. (4)	12	25	94.32
30-345	1 gal. (4)	4	39	78.56
30-351	5 gal. pail	1	41	91.30
35-352	55 gal.	1	450	920.70



LIME DISSOLVER "PLUS"™ No Fume Scale Remover

Dissolves lime and scale in water lines and ice machines. Removes concrete and rust stains. For use insensitive areas that can not tolerate irritating fumes.

30-355	qts. (4)	12	25	114.00
30-360	1 gal. (4)	4	25	83.20
30-361	5 gal.	1	41	102.50
30-363	5 gal. w/color & Inhibitor	1	41	117.50
30-362	55 gal.	1	450	1,116.50



SEASON PREP™ Superior Scale Remover

Water Tower and water cooled equipment cleaner & descaler. Lowers head pressure. Color coded, anti-foam, safe on galvanized metal. Fast reacting.

90-381	10 lb.	4	40	299.20
90-382	50 lb.	1	50	352.00



LIQUID SCALE INHIBITOR™ Scale Inhibitor For Circulating Cooling Systems

Effective in hard or highly alkaline water. Neutralizes mineral build up over long periods.(feeder required)

90-375	1 gal. (4)	4	34	129.36
90-376	5 gal.	1	41	155.98
90-377	55 gal.	1	450	1,620.20




(1) Brush Dauber in Can (2) Blister Card (3) Squirtsput (4) Child-Resistant Cap




A/C, Refrigeration & Indoor Air Quality Chemicals


Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
---------	-----------	------	----------------	--------------	-------------------


Scale Removal / Descaling Cont'd

 <p>CRYSTAL SCALE INHIBITOR™ Scale Inhibitor and Corrosion Water Treatment</p> <p>Self-feeding treatment to inhibit scale formation and corrosion in small cooling towers. Long lasting time release treatment.</p>	90-379	5 gal. pail	1	20	286.00
---	--------	-------------	---	----	--------

Ice Machine Cleaners



 <p>ICE MACHINE CLEANER™ Cleaner for Ice Machines</p> <p>Most effective Food grade liquid to remove scale deposits from ice machines. No fume and no chlorides to attack stainless steel.</p>	90-350	8 oz. (4)	12	8	81.84
	90-351	16 oz. (4)	12	20	106.92
	90-352	1 gal. (4)	4	34	161.74



 <p>NICKEL SAFE™ Nickel Safe Ice Machine Cleaner</p> <p>Meets Manitowoc Spec. GES-6. Safe on nickel components. Removes scale deposits. No fumes.</p>	90-356	16 oz. (4)	12	13	109.82
	90-357	1 gal. (4)	4	34	184.36

 <p>ICE MAN SANITIZER™ Ice Machine Sanitizer, Disinfectant & Deodorizer</p> <p>Use to disinfect ice machines and food processing equipment. Eliminates odors and slime growth. EPA Registered.</p>	90-360	8 oz. (4)	12	8	121.96
	90-361	16 oz. (4)	12	13	149.68

 <p>ICE CLEAN™ Ice Machine Clean</p> <p>Powdered scale remover, nickel safe, No Fumes. Mix with water at job site.</p>	90-365	4 oz.	12	3	166.80
--	--------	-------	----	---	--------

Leak Detectors, No Heat Solders & Epoxy Leak Sealant

 <p>TRACE A LEAK™ Internal Refrigerant Tracer</p> <p>For hard to find leaks in A/C-Refrigeration Systems. Can be used with all oils and refrigerants. Fluorescent, easy to see.</p> 	90-215	4 oz.	12	3	190.80
---	--------	-------	----	---	--------

 <p>LEAK SEEK™ FLUORESCENT YELLOW (EASY TO SEE) Fast Acting Leak Detector</p> <p>Easy to see, fast action, long-lasting bubble. Detects leaks in refrigerant, natural gas, nitrogen, air & CO2 lines.</p> 	90-203	8 oz. (1)	24	14	93.46
	90-204	1 qt. w/ spray	12	22	131.74
	90-205	1 gal. (4)	4	40	128.92



(1) Brush Dauber in Can (2) Blister Card (3) Squirtpout (4) Child-Resistant Cap



A/C, Refrigeration & Indoor Air Quality Chemicals

Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
---------	-----------	------	----------------	--------------	-------------------

Leak Detectors, No Heat Solder & Epoxy Leak Sealant Cont'd



LEAK SEEK™ - HVAC BLUE

Fast Acting Leak Detector

Ultra small leak detector. Ultra low temp., non-freezing, fast acting, long-lasting bubble. Detects leaks in refrigerant natural gas, nitrogen, air & CO2 lines.



90-208	1 qt. w/ spray	12	24	131.74
90-209	1 gal. (4)	4	40	128.92



METAL LOCK "BLACK"™

No Heat Solder- for ALL Metals

Permanent leak proof bond, rated up to 2200 PSI after 2 hours. Temperature range from -65 to + 350F. Can be used on ALL TYPES OF METAL, including aluminum, steel, copper, iron, nickel and more. Compatible with all refrigerants and oils.

10-900	3 oz.	16	5	478.40
--------	-------	----	---	--------

(Display. Contains cap applicator brush)



METAL EPOXY™

Patch And Repair Adhesive

Fills holes and cracks. Bonds to metal, wood, plastic, glass and rubber. No heat, hardens in 5 minutes. Easy to use, unique syringe applicator.

00-200	25ml	12	2	183.60
--------	------	----	---	--------

Exterior Coil Protection



PROTECTA COAT™

Protective Exterior Clear Coating for Coils & Cabinets

Protects against rust, corrosion, salt spray, mineral acids & animal urine. Easy spray on aerosol for small systems. Available in larger sizes.

90-400	20 oz. aerosol	12	13	270.34
--------	----------------	----	----	--------

(Also available in 5 and 55 gallon drums)
Both clear or blue

Boiler & Fuel Treatments

Fuel Oil Products



SUPER HEAT™

Fuel Oil Treatment, 8 in 1

Super Heat is the original fuel oil treatment. Controls waxing & gelling, melts ice, lowers pour point, dissolves sludge, eliminates water, cleans the system, reduces soot and eliminates bacteria.

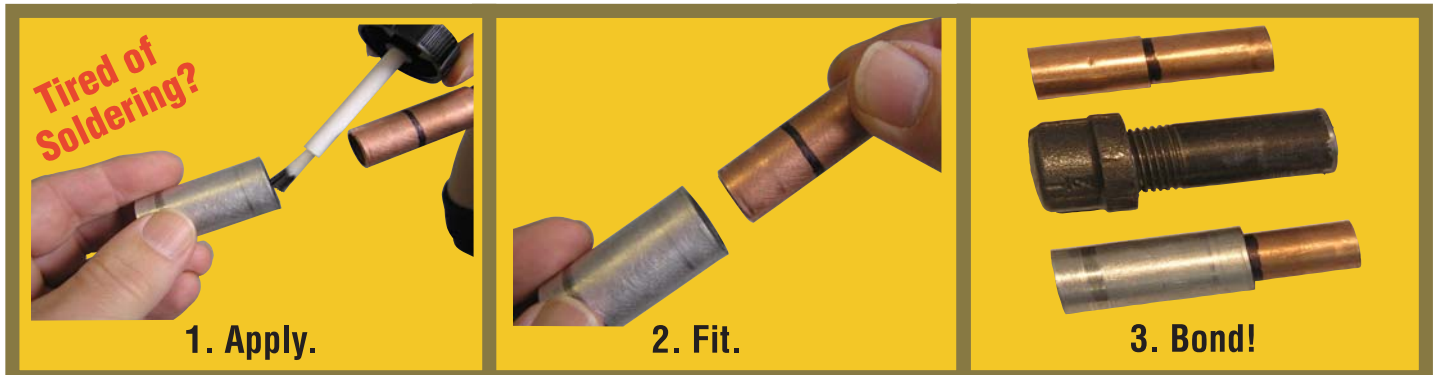
60-129	8 oz.	24	16	198.00
60-130	1 pt.	24	32	250.80
60-145	1 gal.	6	54	390.72
60-150	5 gal.	1	45	305.80
60-160	55 gal.	1	450	3,267.00



(1) Brush Dauber in Can (2) Blister Card (3) Squirtsput (4) Child-Resistant Cap



NEW! FOR ALL METALS! Instant Solder, guaranteed.



Works Like Magic! Instantly Bonds All Metal Pipes! No Need To Solder!

Let Metal Lock Black revolutionize the way you solder pipes!

HVAC

No Heat Solder

Metal Lock Black

Bonds All Metal Pipes Instantly!

NEW! - For All Metals. Mix or Match Aluminum, Copper, Iron, Steel and more!

Metal Lock Black is the easy, safe answer to permanently join any type of metal pipe and fitting together without hot soldering or brazing. Metal Lock Black can be used on all metals, matched or mis-matched, threaded or unthreaded. Use on aluminum, copper, brass, black iron, steel and more!

- Seals against most liquids, gases & chemicals
- Permanent leakproof bond - Fast
- Good for temperature -65°F To +350°F
- Withstands shear pressure up to 2,200 PSI (ISO10123)
- Withstands vibration
- Locking torque, 28-35 (N.m. breakaway)
- Locking torque, 50-65 (N.m. prevailing)
- Can be disassembled at 400°F (204°C)

Stock No. 10-900

2 oz. (60 ml)

Meets U.S. Military Specifications:

- Mil-S-46163A Type I Grade K
- Mil-S-224723E Letter Grade CVV

RECOMMENDED FOR:

- | | | | |
|------------|------------|----------------|------------|
| • Acid | • Brine | • Kerosene | • Solvents |
| • Air | • Caustics | • Oil | • Steam |
| • Alkalies | • Gasoline | • Refrigerants | • Water |

*Air space in bottle is required for increased shelf life.



BUY Metal Lock today!



Environmentally Safe, Industrial Strength Chemical Products



METAL LOCK BLACK

“No Heat Solder-For ALL Metals”

Helpful notes:

- A) Metal Lock Black can be use on all metals, matched or mismatched: aluminum, copper, brass, black iron, steel and more.
- B) Metal Lock Black works best with a thin solid line being applied to the full diameter of the pipe exterior and the inside of the fitting (connector), threaded or unthreaded. Too much will be a waste. Note: After cutting or sanding pipe wipe off metal dust from bonding area to prevent applicator brush from hardening.
- C) If done properly, Metal Lock Black will bond (cure) sufficiently to handle in about 30 seconds. Within 2 to 5 minutes you can apply manual pressure.
- D) For unthreaded pipe and fittings apply Metal Lock Black then insert the pipe into the fitting and, if possible, turn the pipe or fitting ½ (or more) turn. This will assure there are no gaps in the liquid. If you cannot turn the pipe/fitting then assure Metal Lock Black is applied all around the pipe...no gaps. After the initial turn, DO NOT rotate or allow the pipe/fitting to move from the initial position for approximately 30 seconds to one minute. Movement within the first 30 seconds would be cause for a possible leak.
- E) For threaded pipe and fittings just apply Metal Lock Black as you would with normal pipe dope/sealant, screw the two pieces together and tighten.
- F) If using soft or rolled copper or metal tubing it is necessary to use a swedge tool to assure the tube end fits snugly into the fitting or connector (i.e., no gaps). It will not fill gaps or holes...use ComStar's Metal Epoxy to fill gaps and holes.

Instructions

1. For unthreaded fittings, use a 60 grit (medium) emery sanding cloth, sand the inside of the fitting and the outside of the pipe section to be inserted into the fitting. This provides additional fusion surface.
2. Apply a solid ***thin*** line of Metal Lock Black around the inside of the fitting. If desired (but not necessary), you can also apply a thin solid line on the outside of the pipe. This will allow an inspector to see that the pipe/fitting is bonded with Metal Lock Black. For “spec” jobs, check with local inspector prior to using Metal Lock Black.
3. Insert the pipe into the fitting and twist ½ or more turn. This assures that the Metal Lock Black is on the entire circumference of the pipe and fitting. Having no gaps is necessary to prevent leaks.
4. After inserting the pipe do not allow the pipe/fitting to move, slip or rotate for at least 30 seconds and preferably for about 1 minute. This time is necessary to allow the Metal Lock Black to react with the metals and begin the reactive bonding process.
5. Water pressure tests can be conducted after 2 minutes. For air conditioning system tests it is recommended to wait 60 minutes or longer after application.
6. If a leak is detected, you can take the pipe/fitting apart by using a propane or MAPP gas torch to heat the fitting. This will release the Metal Lock Black allowing the pipe/fitting to be separated. Clean the connections and follow the above instructions again. **EXTREME CARE IS NECESSARY TO PROTECT SURROUNDING AREAS FROM FIRE. ALSO, THE PIPE/FITTING WILL BE EXTREMELY HOT...ALLOW TIME TO COOL AND THEN DISASSEMBLE USING WET TOWELS.**

Boiler & Fuel Treatments

Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
Fuel Oil Products cont'd.					
 BIOFUEL TREAT™ 7 in 1 Biofuel Oil Treatment Corrects & Prevents spider web sludge and semi-solid material that can develop in biofuels. Stop alarm vent and filter clogging and bad odors. Good in biofuels up to B20.	60-120	8 oz. (4)	24	26	210.72
	60-121	1 gal. (4)	4	34	155.32
 ICE FREE™ Fuel Oil & Diesel De-Icer Works fast to dissolve ice & wax in iced and jelled fuel oil and diesel fuel. Use to dissolve ice build up or to prevent it.	60-175	16 oz. (4)	24	30	210.68
 SLUDGE SOLVE™ Heavy Oil Sludge Eliminator Heavy duty shock treatment to remove sludge in fuel tanks and to prevent lines, screens and nozzles from clogging.	60-235	1 qt.	24	50	303.60
	60-245	1 gal.	6	50	237.60
	60-250	5 gal.	1	40	192.50
	60-265	55 gal.	1	481	1,996.50
 WATER ABSORBER™ Water Dispersant for Fuel Oil Heavy duty water dispersant. Rids fuel oil of water and prevents freezing and corrosion.	60-330	1 pt.	24	30	290.40
	60-335	1 qt.	24	56	396.00
	60-345	1 gal.	6	55	363.00
	60-350	5 gal.	1	60	242.56
	60-365	55 gal.	1	500	2,223.80
 FUEL ANTI-BACTERIA™ Fuel Oil Bacteria Eliminator Eliminates bacteria, fungi and algae growth in fuel oil. Fast Reacting.	60-210	1 qt.	12	25	304.66
	60-211	1 gal.	4	34	360.36
 FUEL SPILL SPONGE™ Oil Spill Collector Biodegradable, oil turns to rubber mat for easy pick up. Just sprinkle powder onto oil. Works great to pick up oil mixed with water in sump pump collection point.	60-205	7 oz.	12	6	257.40
	60-206	10 lb.	1	10	344.20
 SAFE!™ Bacterial Oil Spill Eater Dispose of oil spills safely. Enviro-safe organic bacteria will "eat" and absorb the oil naturally. Sprinkle directly onto oil or mix with water and flush solution on oil spill area.	60-200	8.5 oz.	12	8	152.60
	60-201	10 lb.	1	11	205.60
 LIQUID SAFE™ Environmental Oil Spill Cleaner Removes oil stains while it biodegrades oil for safe disposal. Amazing product that cleans away oil stains as it biodegrades oil.	60-203	32 oz. (4)	12	25	183.48
	60-204	1 gal. (4)	4	34	211.20
	60-208	55 gal.	1	450	1,584.00



(1) Brush Dauber in Can (2) Blister Card (3) Squirtsput (4) Child-Resistant Cap



Boiler & Fuel Treatments

Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton	
Fuel Oil Odor Control Products cont'd						
 WATER DETECTING PASTE™ Water Level Detecting Paste Shows the amount of water in fuel oil tanks. Paste area coming in contact with water turns the color of purple.	60-405	2 oz. jar	24	3	163.68	
	60-406 (Note)	3 oz. tube	24	5	196.94	
Note: Point of Purchase Display						
 GAS LEVEL INDICATOR™ Color Indicator Quickly shows Gasoline Level in tank on measuring stick. Paste area changes color to display gasoline level.	60-408	2 oz. jars	24	3	163.68	
 ODOR BOMB SERIES™ Heavy Duty Deodorant Eliminates unwanted odors. Long-lasting, pleasant scents. Great for hard to rid odors. Three strong but pleasant scents: Cherry, orange and mint. (Counter Display)	Cherry Bomb 60-621(Gel Cup) 8 oz. 12 6 104.40 Orange Bomb 60-625(Gel cup) 8 oz. 12 6 104.40 60-627(abrasant powder) 1 lb. 12 13 104.40 60-628 (spray) 16 oz. 12 13 125.52 Mint Bomb 60-630 (gel cup) 8 oz. 12 6 104.40 60-631 (abrasant powder) 1 lb. 12 13 104.40 60-632 (spray) 16 oz. 12 13 125.52 Combo Pac - 4 each Cherry / Orange / Mint Bomb 60-635 (gel cup) 8 oz. 12 6 104.40					
	PURE AIR™ Gel Cup, Spray, Powder & Pellets Odor Neutralizer Turns unwanted odors into pure smelling air. Good for vehicles, rooms, ducts, air handling units, ventilation systems and more. Eliminates odors from stagnant air, garbage, smoke, mildew & musk, animal and human waste, vomit, decay & more.					
	60-225 (note)	8 oz. gel	12	7	104.40	
	60-226	3 lb. gel tub	6	18	179.52	
	60-220	16 oz. spray	12	13	123.36	
	60-221	1 gal. (4)	4	33	295.68	
	60-222	1 lb. powder	12	13	104.40	
	60-223	1 lb. 5 oz. pellets	12	16	109.68	
	Note: Point of Purchase Display					
	 ODOR ELIMINATOR™ Heavy Duty Odor Neutralizer Spray on fuel oil spill after clean up to eliminate all trace of oil odor. Heavy duty with pleasant scent works fast, lasts long.	60-215	24 oz. spray	12	20	208.08
60-216		1 gal. (4)	4	4	235.20	
 SWEET AIR SPRAY™ Fuel Odor Neutralizer Deodorizes fuel odors. Pleasant cherry scent. Fast working.	60-520	20 oz. aerosol	12	12	121.20	
 SWEET AIR POWDER AND PELLETS™ Powdered Odor Remover and Absorbent Absorbs and deodorizes fuel and all unwanted odors. Pleasant cherry scent, absorbs oil.	60-620 (powder)	15 oz.	12	9	108.00	
	60-623 (powder)	5 gal.	1	20	67.00	
	60-622 (powder)	55 gal.	1	220	773.86	
	60-619 (pellets)	1 lb. 5 oz.	12	16	103.92	



(1) Brush Dauber in Can (2) Blister Card (3) Squirtsput (4) Child-Resistant Cap



Boiler & Fuel Treatments













Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton	
Anti-Freeze Protection (Boiler Anti-Freeze)						
<i>(See A/C & Refrigeration section for 100% Propylene & Ethylene Glycol) p. 7 & 8</i>						
	FREEZE FREE -100° F POLAR™ Boiler Anti-Freeze Protects to -100° F with safe corrosion inhibitor package. Non-toxic, safe propylene glycol formula.	35-757	1 gal. (4)	4	35	CALL FOR
		35-755	5 gal.	1	45	MARKET
		35-756	55 gal.	1	480	PRICE
	FREEZE FREE -100° F™ Boiler Anti-Freeze, Aluminium Safe Formula Protects boiler and cooling systems down to -100° F. Non-toxic, safe propylene glycol formula. 	35-725	1 gal. (4)	4	35	CALL FOR
		35-730	5 gal.	1	45	MARKET
		35-740	55 gal.	1	480	PRICE
	FREEZE FREE -50° F™ Boiler Anti-Freeze, Aluminium Safe Formula Protects boiler and cooling systems down to -50° F. Non-toxic, safe propylene glycol formula. 	35-724	1 gal. (4)	4	35	CALL FOR
		35-729	5 gal.	1	45	MARKET
		35-739	55 gal.	1	480	PRICE
Anti-Freeze Protection (Heat Transfer Fluids)						
	RV GRADE FREEZE FREE™ Anti-Freeze, Non-Toxic, PG Formula for RVs Non-toxic anti-freeze for mobile homes. Not intended for boilers. 	35-741	1 gal.	4	35	CALL FOR
		35-744	5 gal.	1	42	MARKET
		35-746	55 gal.	1	440	PRICE
	FREEZE FREE/ PROFROST/ FROST FREE HYDROMETERS™ Anti-Freeze Tester Tests freezing levels of all Propylene Glycol and Ethylene Glycol anti-freeze. 	35-742 (Propylene Glycol)	n/a	1	4 oz.	13.86
		35-743 (Ethylene Glycol)	n/a	1	4 oz.	13.86
	PG/EG CORROSION INHIBITOR™ Anti-Freeze Recharge An additive to recharge the corrosion inhibitor level of Propylene & Ethylene Glycol based anti-freeze, chiller & heat transfer fluids. Increase life of fluids by eliminating acidic water levels. 	35-702	1.5 lbs.	12	19	276.00
	GEO THERMAL -M (Methanol)™	01-159	5 gal. (4)	1	42	CALL FOR
	GEO THERMAL -E (Ethanol)™	01-168	5 gal.	1	42	MARKET
	GEO THERMAL -PG (Propylene Glycol)™ Methanol, ethanol & propylene glycol fluid for geothermal cooling & heating systems.	01-170	5 gal.	1	42	PRICE
Also available in 55 gal. drums						



(1) Brush Dauber in Can (2) Blister Card (3) Squirtspout (4) Child-Resistant Cap



Boiler & Fuel Treatments

Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
Boiler System Treatments					
 <p>BOILER TREATMENT™ Boiler Water Cleaner & pH Neutralizer Cleans boiler water, corrects pH balance and prevents rust and scale. Easy to use color coded liquid that shows when treatment's complete.</p> 	35-135	1 qt. (4)	24	66	213.12
	35-145	1 gal.	4	60	116.40
	35-150	5 gal.	1	60	133.40
	35-160	55 gal.	1	450	1,398.10
 <p>BOILER SYSTEM CLEANER™ New & Old System Cleaner Fast, safe & effective at cleaning out old and new systems. Use before installing new anti-freeze to assure an uncontaminated system. Eliminates cutting oils and flux from newly installed systems.</p> 	35-200	1 lb.	12	13	109.68
 <p>STEAM CLEAN™ Priming, Foaming and Surging Treatment - Color Coded Stops priming, surging and foaming in steam boilers. Color coded to show you when treatment is complete. Use in new or old boiler systems</p> 	35-213	8 oz.	12	8	198.00
 <p>AIR GONE™ Air Bubble Eliminator for Hydronic Systems Removes air from hydronic systems. Will not harm seals. Stops that banging sound in steam lines.</p> 	35-340	1/2 gal.	6	45	68.64
	35-341	1 gal.	4	32	85.44
 <p>HYDRO LAX™ Hydronic System Seal Cleaner & Lubricant Non-petroleum hydronic system cleaner & lubricant for seals & parts. Treat system to prevent formation of blockages and leaks.</p> 	35-335	1 qt.	24	60	360.48
 <p>HYDRO SEAL™ Hydronic System Sealant Seals and prevents leaks in hydronic systems. Non-hazardous and safe on all system components. Fast and easy to use.</p> 	35-338	16 oz.	12	13	104.40



(1) Brush Dauber in Can (2) Blister Card (3) Squirtsput (4) Child-Resistant Cap





Boiler & Fuel Treatments

Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
---------	-----------	------	----------------	--------------	-------------------

Boiler System Treatments cont'd

 <p>BOIL A COIL™ External Coil Cleaner for Hot Water Coils Cleans external coils without removing from boiler. Just add dissolved powder into system to dissolve scale build-up and improve heat transfer.</p>	35-423	16 oz.	12	39	137.28
	35-424	5 gal.	1	45	304.50
 <p>LIME DISSOLVER™ Interior Coil Scale Remover Removes scale from interior water heater coils. New color indicator to let you know when scale/line is gone. Very effective, very fast.</p>	30-350	1 qt. (4)	12	25	94.32
	30-345	1 gal. (4)	4	39	78.56
	30-351	5 gal.	1	41	91.30
	30-352	55 gal.	1	450	920.70
 <p>LIQUID PLUG™ Liquid Boiler Leak Sealant Seals boiler and circulating hot water system leaks. Non-freezing, odorless, will not harm seals. Just add to boiler water and run system. Liquid plug will seek out the leak and plug it. No flush necessary. </p>	40-135	1 qt.	24	55	290.40
 <p>BOILER SEAL POWDER™ Powdered Boiler Leak Sealant Odorless powder formula. Just add to boiler water and run system. Powder will circulate, find and plug the leak. No flush necessary. </p>	40-222	14 oz.	12	18	157.20
 <p>PATCH ALL™ Boiler Emergency Repair Putty Revolutionary product designed to patch, plug and caulk any material. Remains flexible indefinitely. A quick fix. </p>	25-200	1 lb.	24	25	132.00

Refractory Cements, Glue, Leak Detection

 <p>FURNACE CEMENT™ Refractory/Retort Cement Provides up to 3000° protection. Non-freezing, non-cracking, non-shrinking. Bonds to virtually any material without sagging. Creamy consistency makes it easy to apply and spread. </p>	40-355	1 pt.	24	50	158.40
	40-360	1 qt.	12	50	106.08
	40-365	1/2 gal.	6	54	84.00
	40-370	1 gal.	4	72	87.60
	40-371	1 gal. (2 pack)	2	36	44.56
	40-375	2 gal.	1	37	31.72
	40-377	5 gal.	1	75	79.02

(See Next Page)



(1) Brush Dauber in Can (2) Blister Card (3) Squirtpout (4) Child-Resistant Cap



Boiler & Fuel Treatments

Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
---------	-----------	------	----------------	--------------	-------------------

Refractory Cements, Glue, Leak Detection cont'd



BOND IT™ Tacky High Temperature Chamber Glue

High temperature refractory glue for IPC fiber chambers. Its sticky consistency makes it perfect to hold chamber materials in place during installation.

40-430	1 pt.	24	50	190.08
40-435	1 qt.	12	50	181.68



WATER GLASS GLUE™ High Temperature Chamber Glue

High temperature refractory glue for chambers. Economical glue that hardens with heat or over time.



40-409	8 oz. (3)	24	15	69.12
40-410	1 qt.	12	31	97.20
40-415	1/2 gal.	6	31	72.72
40-417	5 gal.	1	42	104.00



LEAK SEEK™ FLUORESCENT YELLOW (EASY TO SEE) Fast Acting Leak Detector

Non-freezing, fast action, long-lasting bubble. Detects leaks in refrigerant, natural gas, nitrogen, air & CO₂ lines.



90-203	8 oz. (1)	4	14	93.60
90-204	1 qt. w/ spray	12	22	131.76
90-205	1 gal. (4)	4	40	128.96



LEAK SEEK™ - HVAC BLUE Fast Acting Leak Detector

Ultra small leak, ultra low temp, leak detector. Non-freezing, fast acting, long-lasting bubble. Detects leaks in refrigerant natural gas, nitrogen, air & CO₂ lines.



90-208	1 qt. w/ spray	12	24	131.76
90-209	1 gal. (4)	4	40	128.96

Soot Removers / Cleaners



SOOT CLEANER SPRAY™ Soot Remover Spray

Allows soot to burn off at lower temperatures. Spray into heat transfer chamber and run system. Great, easy maintenance tool.

35-620	16 oz. aerosol	12	12	129.36
--------	----------------	----	----	--------



SOOT CLEANER METAL PUMP SPRAY CAN™ Refillable Metal Pump Spray

Non-aerosol, high pressure spray. Heavy duty reusable metal sprayer.

35-360	1/2 gal.	1	2	85.48
--------	----------	---	---	-------



(1) Brush Dauber in Can (2) Blister Card (3) Squirtsput (4) Child-Resistant Cap



Boiler & Fuel Treatments

Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
Soot Removers / Cleaners cont'd					
 <p>SOOT CLEANER PUMP SPRAY REFILL™ Soot Cleaner Refill for Metal Pump Can Economical soot spray refill. Use above metal sprayer for easy application.</p>	35-365	1 gal.	6	48	151.80
 <p>CHEM VAC™ Soot Remover Stick Easy-to-use stick for removing soot in combustion area. The original soot stick. Just slip through peep hole and run system. Great maintenance tool.</p>	35-515	114 grams	48	14	94.08
 <p>CHEM VAC BUCKETS™ Soot Remover Stick Soot sticks with reusable work bucket.</p>	35-516	114 grams	48	15	104.64
 <p>SOOT BROOM™ Soot & Creosole Remover Crystals Remove soot and creosole from wood burning stoves, fire places. Just sprinkle on open fire.</p>	35-700	18 oz	12	15	118.80
Degreasers & Carbon Cleaners					
<i>See Additional Heavy Duty Degreasers in Precision & General Purpose Cleaning Section p. 34 - 36</i>					
 <p>SPRITZ™ Heavy Duty Industrial Oil, Grease & Carbon Cleaner Water soluble. Cleans all surfaces of oil, grease and carbon. Heavy duty and very effective as a degreaser and carbon soot remover.</p>	55-105	1 qt. w/spray	12	19	149.28
	55-112	1 gal.	4	33	102.56
	55-114	5 gal. pails	1	44	125.40
	55-115	55 gal. drum	1	450	1,361.80
 <p>GREASE AWAY™ HD Degreaser An alternative to Spritz. Water soluble and low odor. Rapidly liquefies and lifts greasy grime for fast and easy cleaning. Great for hundreds of applications. Unmatched to degrease and dissolve oils. Pleasant lemon scent.</p>	55-130	1 qt. w/spray	12	19	145.20
	55-131	1 gal. (4)	4	33	101.20
	55-132	5 gal. pails	1	42	123.80
	55-133	55 gal. drum	1	450	1,331.00

(See Next Page)



(1) Brush Dauber in Can (2) Blister Card (3) Squirtsput (4) Child-Resistant Cap



Boiler & Fuel Treatments

Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
Degreasers & Carbon Cleaners cont'd					

See Additional Heavy Duty Degreasers in Precision & General Purpose Cleaning Section p. 34 - 36



FOAMY CLEAN™
No Rinse Coil Cleaner

Great on evaporator coils and many other surfaces. Self rinsing with fast breaking foam. Cleans and deodorizes.



55-099	20 oz. aerosol	12	13	139.20
--------	----------------	----	----	--------



SUPER FANTASTIC FOAM™
Foaming Water Rinse Degreaser

USDA registered, biodegradable, heavy duty cleaner. Will not contaminate waste oil. Heavy foamer with pleasant lemon scent. (Citrus Fragrance)



55-221	20 oz. aerosol	12	14	139.20
55-222	1 gal. (4)	4	48	110.00
55-223	5 gal. pails	1	45	132.00
55-224	55 gal. drum	1	450	1,422.30



SUPER GREASE CUTTER™
Heavy Duty Mechanical Degreaser

USDA registered, self-rinsing, biodegradable. Will not contaminate oil. Great degreaser with powerful spray. Environmentally safe.



55-121	20 oz. aerosol	12	16	139.20
55-122	1 gal. (4)	4	48	110.00
55-123	5 gal. pails	1	45	132.00
55-124	55 gal. drum	1	450	1,422.30



GREASE CUT™
Heavy Duty Fast Drying Degreaser

Quick-drying degreaser. No water rinse necessary. Old standby, non-flammable, non-conductive, fast drying.

55-120	20 oz. aerosol	12	14	139.20
--------	----------------	----	----	--------



GREASE BLASTER™
Heavy Duty, Light Foaming Degreaser

Self-rinsing, odorless, non-freezing and bio-safe. Will not contaminate oil. No odor for sensitive areas and service techs.



55-126	20 oz. aerosol	12	14	139.20
--------	----------------	----	----	--------



(1) Brush Dauber in Can (2) Blister Card (3) Squirtsput (4) Child-Resistant Cap



Boiler & Fuel Treatments

Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
---------	-----------	------	----------------	--------------	-------------------

Degreasers & Carbon Cleaners cont'd.



PERCH™
**Heavy Duty, Fast Drying
 All Purpose Parts Cleaner**
 Non-flammable all purpose degreaser and mechanical parts cleaner.

55-545	1 gal.	4	50	259.60
--------	--------	---	----	--------



CONTACT CLEANER™
Electrical Contact Spray Cleaner
 Burnishing cleaner with high dielectric strength. Non-flammable, non-conductive.

55-620	16 oz. aerosol	12	14	126.96
--------	----------------	----	----	--------

Hand Cleaners



SHAKE IT™
Powdered Hand Soap
 High quality powdered hand soap. Wash with water. Will not sting on broken skin.

50-120	18 oz.	12	27	78.00
50-135	5 lbs.	6	33	123.48
50-155	50 lbs.	1	53	144.22
50-160	100 lbs.	1	108	264.44



QUICK CLEAN™
**Liquid Hand Soap, Gel or
 Pumice Formula**
 Waterless rinse, heavy duty hand cleaner. Removes grease, carbon, oil, ink & dirt (see section 24 for wall dispenser) with lemon scent.

50-224	16 oz. smooth gel	12	14	92.88
50-225	1 gal. (4) smooth gel	4	34	101.20
50-226	16 oz. w/ Pumice	12	14	92.88
50-227	1 gal. (4) w/ Pumice	4	34	101.20

Ice Melt, Gloves, Shoe Covers, Brushes, Bottles, Pumps, Dispensers



Rock Salt (Ice Melt)
 NITRILE Blue Disposable Gloves
 100 Gloves per box

01-050		1	25	12.98
MG1103	Large, 100 pcs.	10	15	208.00
MG1104	X-Large, 100 pcs.	10	15	208.00



Disposable Shoe Covers

1802L	Fits all	4	8	120.16
-------	----------	---	---	--------



Pipe Dope Brushes

75-100	7" handle	144	8	175.68
--------	-----------	-----	---	--------



Sprayer (only)

75-111	24 oz.	12	2	45.60
--------	--------	----	---	-------



Acid Brushes

75-200	6" metal	144	2	83.52
--------	----------	-----	---	-------

Spritz Bottle w/sprayer (empty)

75-400	24 oz.	12	4	65.32
--------	--------	----	---	-------

CF-20 System Cleaner & Oil Transfer Pump

75-500	Tool Kit Size 115v/60	1	7	525.80
--------	-----------------------	---	---	--------

CF-20 System Cleaner & Oil Transfer Pump

75-501	Tool Kit Size 230v/50	1	7	850.00
--------	-----------------------	---	---	--------

Refillable Metal Pump Spray Can

35-360	1/2 gal.	1	2	85.48
--------	----------	---	---	-------

Quick Clean Hand Cleaner Wall Dispenser












75-600	-	1	0.5	45.00
--------	---	---	-----	-------



(1) Brush Dauber in Can (2) Blister Card (3) Squirtpout (4) Child-Resistant Cap



Plumbing Products

Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
Drain & Waste System Cleaners					
 <p>HOT POWER™ Professional Sulfuric Acid Drain Cleaner</p> <p>Childproof cap with liner and an outer protective bag. Corrosion inhibitor protects metal pipes. Safe instructions in English and Spanish.</p>	30-135	1 qt. (4)	12	50	114.84
	30-140	1/2 gal. (4)	6	50	107.44
	30-145	1 gal. (4)	4	64	131.64
 <p>QUICK FLOW™ Buffered Sulfuric Acid Drain Opener</p> <p>Childproof cap with liner and an outer protective bag. Corrosion inhibitor protects metal pipes. Safe instructions in English and Spanish.</p>	30-147	1 qt. (4)	12	50	126.00
	30-148	1/2 gal. (4)	6	50	113.40
	30-149	1 gal. (4)	4	64	138.00
 <p>BLOW-OUT™ Non-Acid Drain Cleaner, Industrial Strength</p> <p>Heavy duty non-acid, industrial strength drain cleaner. Child proof cap with liner.</p> 	30-475	1 qt.	12	31	78.00
	30-480	1/2 gal.	6	31	62.72
 <p>PIRANHA™ Crystal Drain Opener (Non-Acid)</p> <p>White crystals can be made to any strength to unclog pipes. Safe in all pipes.</p> 	30-599	1 lb.	12	13	88.56
	30-600	2 lb.	12	25	161.04
	30-601	17 lb.	1	18	79.20
 <p>PIRANHA II™ Crystal Non-Acid Drain Opener With Aluminium Chips</p> <p>Cold water formula that generates heat when Piranha II comes in contact with water. Fast breakup of drain clogs. Odorless, non-fuming and safe on metal and plastic. Will not harm septic systems.</p> 	30-604	1 lb.	12	13	91.92
	30-603	17 lb.	1	18	91.30
	30-605	50 lb.	1	50	272.80
 <p>MUNCH™ Bead Size Drain Opener</p> <p>White non-acid Powder like beads makes it easy to pour down screened drains. Fast, safe, non-acid, non-fuming. Safe in all pipes.</p> 	30-610	1 lb.	12	13	88.56
	30-611	2 lb.	12	25	161.04
	30-612	17 lb.	1	67	79.20
 <p>PURE LYE™ Powdered Drain Cleaner</p> <p>Pure, white, powerful powdered lye. The old fashioned drain cleaner is back. Works fast to open clogged and slow running drains.</p>	30-500	1 lb.	12	13	80.40








(See Next Page)



(1) Brush Dauber in Can (2) Blister Card (3) Squirtspout (4) Child-Resistant Cap



Plumbing Products






Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
Drain & Waste System Cleaners cont'd.					
 PLUMBER'S PLUNGER™ Liquid Drain Opener, Non-Acid Non-acid, liquid drain opener. Economical but effective.	30-700	1 qt. (4)	12	26	55.44
	30-710	1/2 gal. (4)	6	24	43.44
 SHINY BOWL™ Professional Toilet Bowl Cleaner Brightens and cleans bowls effortlessly. Blue viscous fluid klings to bowl as it dissolves scale, cleans and shines.	30-705	1 qt. (3,4)	12	25	76.32
 LIME DISSOLVER™ Scale Remover Dissolves concrete in floor drains and lime in lines, water heaters, etc. New color indicator to let you know when scale / lime is gone.	30-350	1 qt. (4)	12	25	94.32
	30-345	1 gal. (4)	4	39	78.56
	30-351	5 gal.	1	41	91.30
	30-352	55 gal.	1	450	920.70
 LIME DISSOLVER "PLUS"™ No Fume Scale Remover Dissolves lime and scale in water lines and water heater coils. Removes concrete and rust stains. Use in areas where fumes are to be avoided.	30-355	1 qt. (4)	12	25	114.00
	30-360	1 gal. (4)	4	25	83.20
	30-361	5 gal.	1	41	102.50
	30-362	55 gal.	1	450	117.50
Septic Tank & Cesspool Cleaners					
 ROOT GOBBLER™ Root Remover Guaranteed to clear away roots from pipes, sewer lines and septic tanks. Just add the blue crystals into a toilet bowl.	30-425	2 lb.	12	27	198.00
	30-455	50 lb.	1	52	384.00
 MICRO SURGE™ Bacteria Promoter for Septic Tank & Cesspool Increases bacteria growth and activity for fast and continious liquefication of waste.	30-720	18 oz.	12	14	145.44
 SEPTIC TANK & CESSPOOL CLEANER™ Crystal Septic Tank & Cesspool Cleaner Liquefies waste. Caustic cleaner provides quick but safe action to get septic system flowing. Biodegradable.	30-648	5 lb.	6	32	145.56
	30-650	17 lb.	1	19	73.92



(1) Brush Dauber in Can (2) Blister Card (3) Squirtpout (4) Child-Resistant Cap



Plumbing Products

Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
Septic Tank & Cesspool Cleaners cont'd					
 SEPTIC SOAP DIGESTER™ Soap Liquefier Fast and steady action to liquefy soap detergent buildup in septic systems.	30-655	1 qt. (4)	12		119.76
		30-656	1 gal. (4)	4	
 KLEER-OUT™ Liquid Septic Tank & Cesspool Cleaner Clears cesspools, drain lines, grease traps. Fast and very effective.	30-245	1 gal. (4)	4	54	134.64
Pipe Thread Sealants					
 MULTI SEAL™ Teflon Pipe Joint Sealant Teflon, non-hardening, anti-seize, all-purpose pipe joint compound and gasket cement. Not for oxygen lines.	10-315	1/4 pt. (1)	24	11	156.00
	10-325	1/2 pt. (1)	24	21	261.60
	10-330	1 pt. (1)	12	22	210.00
	10-335	1 qt.	12	42	421.20
 LOCK JOINT™ Blue Pipe Joint Sealant, Locks without Hardening Good for oil, gasoline, water, steam, natural gas and refrigerants. Will not drip or spill.	10-614	2 oz tube	12	2	70.80
	10-615	1/4 pt. (1)	24	12	145.44
	10-625	1/2 pt. (1)	24	22	261.60
	10-630	1 pt.	12	22	210.00
 SEAL JOINT #55™ Heavy Duty Pipe Thread Sealant Soft set, for oil, gasoline, water, steam, natural gas and refrigerants. Non-hardening. Will not drip or spill.	10-715	1/4 pt. (1)	24	11	145.44
	10-725	1/2 pt. (1)	24	21	261.60
	10-730	1 pt. (1)	12	22	210.00
	10-735	1 qt.	12	42	421.20
 BLUE JOINT™ Blue Pipe Joint Sealant, Non-Hardening Blue, non-separating pipe joint compound. Will not drip or spill. Good for oil, steam, refrigerant gas and chemicals.	10-515	1/4 pt. (1)	24	12	129.60
	10-525	1/2 pt. (1)	24	25	237.60
	10-530	1 pt. (1)	12	22	171.60
 SURE JOINT™ Pipe Joint Sealant, Non-Hardening Will not drip, spill or separate. The original for oil, gas and all industrial fluids.	10-405	2 oz. tube (2)	24	6	76.80
	10-415	1/4 pt. (1)	24	12	103.20
	10-425	1/2 pt. (1)	24	25	105.72
	10-430	1 pt. (1)	12	22	118.80
	10-435	5 lb.	6	70	250.20




(1) Brush Dauber in Can (2) Blister Card (3) Squirtspout (4) Child-Resistant Cap




Plumbing Products


Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
---------	-----------	------	----------------	--------------	-------------------

"No Heat" Solder, Thread Locker, Flux & Pipe Soldering Coolant


 <p>COPPER LOCK™ No Heat Solder Permanent leak proof bond, rated up to 500 PSI, temperature range -60 to +300F. Good for copper and brass pipe/connectors. Meets us military specifications. Good with all refragerants.</p>	10-800 (Display)	2 oz.	18	3	354.60
	10-801 (Clear Hang Box)	10 ml.	12	1	138.72
	See page 14 for HVAC Metal Lock "Black"				


 <p>THREAD LOCKER™ Screw, Nut, Stud Locker Permanent, high strength metal thread locker. Eliminates need for double nutting and welding. Prevents corrosion and leakage. Good on oily surfaces.</p>	10-808	2 oz.	18	3	322.20
--	--------	-------	----	---	--------

 <p>PERMA FLUX™ Self-cleaning Soldering Flux Professional non-corrosive, non-freezing flux. Does not contain lead or solder. Cleans surfaces for bonding.</p>	15-115	8 oz.	24	15	137.28
	15-117	16 oz.	24	25	212.16

 <p>PIPE COOL™ Pipe Soldering & Brazing Coolant Cools down metal pipes before soldering. Prevents heat damage to surrounding and sensitive areas, sensors and controls. GEL FORMULA.</p>	15-130	1 qt. w/ sprayer	12	24	180.24
---	--------	------------------	----	----	--------

Plastic Pipe Cement, Primers & Cleaners

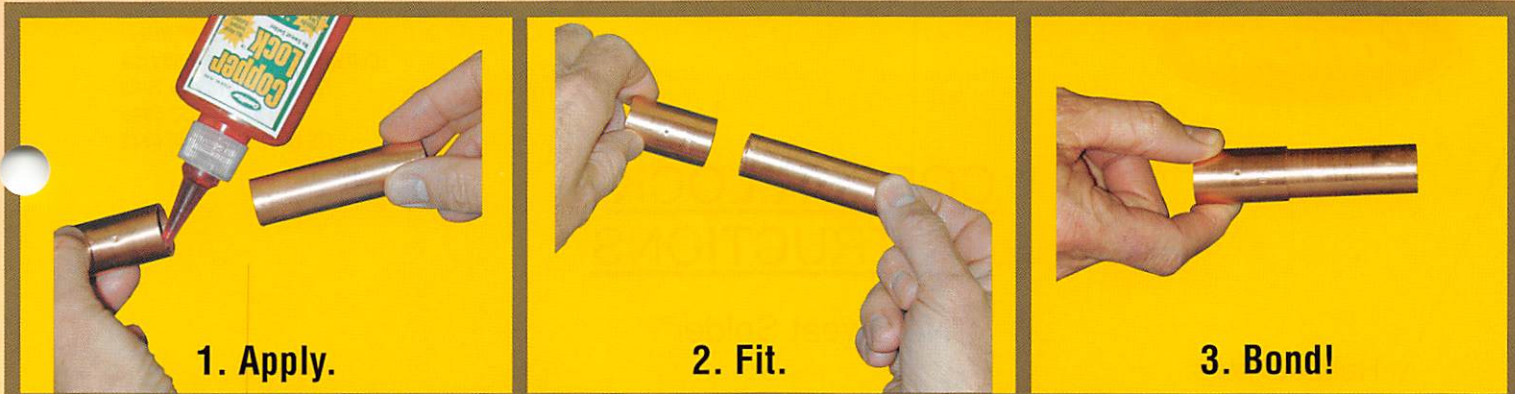
 <p>PVC CEMENT™ (Clear) Low V.O.C. Cement for PVC Pipe & Fittings Fast-setting, medium viscosity, high strength cement. Recommended for Schedule 40 PVC pipe up to -4". Meets ASTM D-2564 - winter grade.</p>	20-115	1/4 pt. (1)	24	10	82.56
	20-125	1/2 pt. (1)	24	16	122.40
	20-130	1 pt. (1)	12	14	97.20
	20-135	1 qt. (1)	12	27	164.40
	20-145	1 gal.	6	53	289.80

 <p>CPVC CEMENT™ (Yellow) Low V.O.C. Cement for CPVC Pipe & Fittings Medium setting for CPVC pipe & fittings. Cold and hot line application.</p>	20-315	1/4 pt. (1)	24	10	106.56
	20-325	1/2 pt. (1)	24	16	151.20
	20-330	1 pt. (1)	12	15	122.16



(1) Brush Dauber in Can (2) Blister Card (3) Squirtsput (4) Child-Resistant Cap





Works Like Magic! Instantly Bonds Copper Pipes! No Need To Solder!

Tired of Soldering?

Let Copper Lock revolutionize the way you solder pipes!

Copper Lock™



No Heat Solder

Bonds Copper Pipes Instantly!

Copper Lock is revolutionizing the way pipes are soldered. Simply apply it inside the connector, fit in the pipe and within seconds a permanent leakproof seal will occur. Pressure may be applied after 2 minutes. Can withstand pressures at 10,000 PSI flow and 500 PSI contained. Copper Lock can also withstand temperatures from -60°F to +300°F.

- Seals against most fluids, gases and chemicals
- Permanent leakproof bond
- Can be disassembled at 400°F heat
- Seals copper pipe up to 1 1/2" (40 mm)
- Withstands vibrating
- Locking torque, 28-35 (N.m. breakaway)
- Locking torque, 50-65 (N.m. prevailing)
- Meets U.S. Military Specifications:
 - Mil-S-46163A Type I Grade K
 - Mil-S-224723E Letter Grade CVV

RECOMMENDED FOR:

- | | | | |
|------------|------------|----------------|------------|
| • Acid | • Brine | • Kerosene | • Solvents |
| • Air | • Caustics | • Oil | • Steam |
| • Alkalies | • Gasoline | • Refrigerants | • Water |

*Air space in bottle is required for increased shelf life.

Stock No. 10-800
2 oz. (60 ml)
with larger
& smaller sizes
available



Buy Copper Lock today!

Environmentally Safe, Industrial Strength Chemical Products



ComStar International Inc.
20-45 128th Street
College Point, NY 11356 USA
Telephone 718 445 7900
Fax 718 353 5998
US Wats 1 800 328 0142

COPPER LOCK™ INSTRUCTIONS

“No Sweat Solder”

Helpful notes:



- A) Snip the very end of the Copper Lock cone dispenser. Too large of an opening will cause too much to come out and it will be a waste and messy. Copper Lock works best with a thin solid line being applied to the full diameter of the pipe exterior and/or inside of the fitting (connector).
- B) If done properly, Copper Lock will bond (cure) sufficiently to handle in about 30 seconds. Within 2 minutes you can perform a pressure test.
- C) After applying Copper Lock, insert the pipe into the fitting and then turn the pipe or fitting ½ turn or more, if possible. This will assure there are no gaps in the liquid.
- D) After the initial turn, DO NOT rotate or allow the pipe/fitting to move from the initial position for approximately 30 seconds to one minute. This may cause a possible leak.
- E) If using soft or rolled copper tubing, it is necessary to use a swedge tool to assure the tube end fits snugly into the fitting or connector (i.e., no gaps).



Instructions

1. Using a 60 grit (medium) emery sanding cloth, sand the inside of the fitting and the outside of the pipe section to be inserted into the fitting. This provides additional bonding surface.
2. Apply a solid thin line of Copper Lock around the inside of the fitting. If desired (but not necessary), you can also apply a thin solid line on the outside of the pipe. This will allow an inspector to see that the pipe/fitting is bonded with Copper Lock. For “spec” jobs, check with your local inspector prior to using Copper Lock.
3. Insert the pipe into the fitting and twist ½ turn or more. This assures that the Copper Lock is on the entire circumference of the pipe and fitting. This is necessary to prevent leaks.
4. Do not allow the pipe/fitting to move, slip or rotate for at least 30 seconds and preferably for about 1 minute. This time is necessary to allow the Copper Lock to react with the copper or brass and begin the reactive bonding process.
5. After two minutes, a water pressure test can be conducted to test for leaks. For a test on an air conditioning system, it is recommended to wait 60 minutes after application.
6. If a leak is detected, you can take the pipe/fitting apart by using a propane or MAPP gas torch to heat the fitting. This will release the Copper Lock and allow the pipe/fitting to be separated. Clean the connections and follow the above instructions again. EXTREME CARE IS NECESSARY TO PROTECT SURROUNDING AREAS FROM FIRE. CAUTION: THE PIPE/FITTING WILL BE EXTREMELY HOT...ALLOW TIME TO COOL AND THEN DISASSEMBLE USING WET TOWELS.

Plumbing Products

Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
Plastic Pipe Cement, Primers & Cleaners cont'd.					
 ABS CEMENT™ Low V.O.C. Cement for ABS Pipe & Fittings Fast-setting, medium viscosity cement for ABS piping & fittings. High strength. Meets ASTM D-2235.	20-415	1/4 pt. (1)	24	8	87.84
	20-425	1/2 pt. (1)	24	16	119.52
	20-430	1 pt. (1)	12	14	87.36
	20-435	1 qt.	12	26	145.44
	20-445	1 gal.	6	53	264.96
 ALL PURPOSE CEMENT™ (Clear) Low V.O.C. Cement for Plastic Pipe & Fittings Use with PVC, CPVC & ABS pipe and fittings.	20-515	1/4 pt. (1)	24	10	97.92
	20-525	1/2 pt. (1)	24	16	138.72
	20-530	1 pt. (1)	12	15	116.40
	20-535	1 qt. (1)	12	26	228.48
 CPVC-PVC PRIMER™ (Purple) Heavy Duty Primer Low V.O.C. High tech primer that cuts gloss and softens surface prior to cementing. Eliminates air bubbles in PVC/CPVC cements to allow for permanent bond. Meets ASTM F-656.	20-615	1/4 pt. (1)	24	8	89.76
	20-625	1/2 pt. (1)	24	14	128.16
	20-630	1 pt. (1)	12	13	107.76
	20-635	1 qt. (1)	12	24	186.48
 ALL PURPOSE CLEANER/ SOLVENT™ Cleaner for PVC, ABS & CPVC Pipe & Fittings Recommended for ABS, CPVC and PVC pipe where primer is not required.	20-715	1/4 pt. (1)	24	9	84.48
	20-725	1/2 pt. (1)	24	15	107.52
	20-730	1 pt. (1)	12	14	86.16
	20-735	1 qt.	12	25	142.80
Putty, Caulking Compounds and Closet Bowl Rings					
 EASY PUTTY™ Plumber's Putty Non-staining, non-drying. Will not shrink, crack or crumble. The "original" plumber's formula.	25-110	8 oz.	48	23	72.00
	25-118	16 oz.	48	46	97.92
	25-130	3 lb.	12	42	69.36
	25-135	5 lb.	12	68	101.04
	25-145	25 lb.	1	25	32.34
 SEAL A BOWL™ Regular Wax Ring Wax ring, regular.	65-100		48	23	65.28
 SEAL A BOWL™ Wax Ring w/Plastic Horn Wax ring with horn.	65-200		24	14	52.80



(1) Brush Dauber in Can (2) Blister Card (3) Squirtsput (4) Child-Resistant Cap









Penetrating, Lubricating & Water Displacing Oils

Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
---------	-----------	------	----------------	--------------	-------------------

Penetrating, Lubricating & Water Displacing Oils

(See Refrigeration Oils on page 9 and 10)





 <p>MONKEY WRENCH™ Industrial Penetrant Nut Buster Penetrates to loosen rusted nuts, bolts. Lubricates and protects with silicone coating. The original all purpose penetrating and lubricating service tool.</p>	45-120	14 oz. aerosol	12	13	118.08
 <p>LUBE TUBE™ All Purpose Lubricating Oil w/ Telescopic Spout All purpose lubricating oil with telescopic spout for hard to reach places.</p>	45-315	4 oz. (3)	24	14	123.84
 <p>ELECTRIC MOTOR OIL™ Non-detergent Electric Motor Oil Non-detergent motor oil. High Quality, time tested.</p>	45-425	8 oz. (3)	24	20	129.60
	45-430	1 pt. (3)	24	37	210.24
	45-435	1 qt. (3)	24	56	342.72
	45-440	1 gal.	6	56	262.80
 <p>BEARING ASSEMBLY LUBE OIL™ Oil for All Bearing Assemblies Prevents gumming, SAE 20 weight, AGMA #2.</p>	45-525	8 oz. (3)	24	15	123.84
	45-530	1 pt. (3)	24	40	210.24
	45-535	1 qt. (3)	24	50	316.80
	45-540	1 gal.	6	52	
 <p>OIL IN ONE™ Cutting Oil - Dark & Clear All purpose, thread cutting tool for high speed machine or hand tool cutting. Extends tool life 3 times normal usage.</p>	Dark/Clear for Oil In One				
	45-635/735	1 qt. (3)	24	64	267.84
	45-645/745	1 gal.	6	53	157.68
	45-650/750	5 gal.	1	50	129.00
 <p>PREMIUM ENGINE OIL™ HD Compressor And Diesel Generator Oil High detergent, SAE 10, anti-wear corrosion & foam inhibitors meets or exceeds spec's of Caterpillar, Mack, Cummins, and the military.</p>	45-960	1 gal. (4)	4	33	100.80
	45-961	5 gal.	1	43	123.00



(1) Brush Dauber in Can (2) Blister Card (3) Squirtsput (4) Child-Resistant Cap



Penetrating, Lubricating & Water Displacing Oils















Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
Penetrating, Lubricating & Water Displacing Oils cont'd					
 <p>VACUUM PUMP OIL™ Lubricating Oil for Air Compressors & Vacuum Pumps High grade SAE 20 wt. mineral oil and anti-wear package. Pneumatic Lubricating Oil.</p>	45-785	1 qt.	12	50	133.92
	45-790	1 gal.	4	33	105.12
(Other SAE weights available)					
 <p>BELT DRESSING™ Industrial Strength Grip Belt Dressing Spray Enables belts to grip, eliminates slipping.</p>	45-800	12 oz. aerosol	12	12	113.76
 <p>SILICONE SPRAY™ Silicone Aerosol Spray Stops squeaks. Lubricates and waterproofs. Food grade.</p>	45-810	12 oz. aerosol	12	12	113.76
 <p>NO MESS PIPE JOINT LUBRICANT™ Pipe Joint & Gasket Lubricant Lubricant for "push-on" pipe joints. Easy to use, will not run after application.</p>	45-950	32 oz.	12	25	155.52
 <p>FAUCET & VALVE STEM LUBRICANT™ Lubricant for Faucets and Valve Stems Long-lasting, waterproof and adheres where applied.</p>	45-900	4 oz.	12	10	72.00



(1) Brush Dauber in Can (2) Blister Card (3) Squirtpout (4) Child-Resistant Cap



Precision & Parts Cleaning Chemicals














Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
Precision & Parts Cleaners					
 <p>ENVIRO CLEAN - PC PC Board Precision Cleaner Powerful fast drying degreaser & cleaner. No flash point, low ozone depleting potential. Safe on most plastics and metals.</p> 	55-800	16 oz. aerosol	12	13	312.00
	55-801	1 gal.	4	40	624.00
	55-802	5 gal.	1	50	760.00
 <p>SFF-20™ (Water Soluble) Heavy Duty Mechanical Parts Cleaner Mechanical parts and general purpose cleaner and degreaser. Low foam, safe on all surfaces. Can be used in steam machines for carpet/seat cleaning.</p> 	55-300	1 gal.	4	34	188.08
	55-301	5 gal.	1	42	223.50
	(Available in 55 gallon drums)				
 <p>ALL CLEAN™ (Odorless) Heavy Duty, Non-Flammable Kerosene Replacement Parts Cleaner - Dip or Brush Application Leaves a corrosion protection barrier. Non-acid, non-alkaline, no odor.</p> 	55-058	1 gal.	4	34	168.16
	55-023	5 gal.	1	42	198.70
	(Available in 55 gallon drums)				
 <p>POWER CLEAN™ (Water Soluble) Heavy Duty Jet Spray Machine Parts Cleaner Safe on all surfaces and metals. Very effective on caked on dirt, grease and grime. Long-lasting, low foam.</p> 	55-033	1 gal.	4	34	115.52
	55-032	5 gal.	1	42	136.30
	(Available in 55 gallon drums)				
 <p>SUPER CLEAN™ (Water Soluble) Heavy Duty Jet Spray Machine Parts Cleaner Mild alkaline mechanical parts cleaner/degreaser. Safe on all metals and paints. Especially effective on bearings. Long-lasting, low foam.</p> 	55-011	1 gal.	4	34	126.64
	55-012	5 gal.	1	42	150.20
	(Available in 55 gallon drums)				
 <p>ULTRA CLEAN™ (Water Soluble) Heavy Duty Ultrasonic Machine Parts Cleaner Mild alkaline parts cleaner and degreaser for ultrasonic machines. Safe on all surfaces.</p> 	55-014	1 gal.	4	34	126.64
	55-017	5 gal.	1	42	150.20
	(Available in 55 gallon drums)				
 <p>ZIP CLEAN™ (Water Soluble) Heavy Duty General Purpose Parts Cleaner Jet spray machine or dip cleaner & degreaser. Caustic base, yet safe on all surfaces except aluminum.</p> 	55-004	1 gal.	4	34	150.16
	55-057	5 gal.	1	42	178.60
	(Available in 55 gallon drums)				



(1) Brush Dauber in Can (2) Blister Card (3) Squirtsput (4) Child-Resistant Cap



Precision & Parts Cleaning Chemicals

Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
Precision and Parts Cleaners cont'd.					
 ZIP CLEAN 100™ (Water Soluble) Super Concentrate Jet spray machine or dip cleaner. Neutralized base for safe use on all metal surfaces. 	55-000	1 gal. (4)	4	34	120.16
	55-003	5 gal.	1	41	136.30
(Available in 55 gallon drums)					
 RENEW™ Ceramic Cleaner & Rust Remover Multi-purpose, super concentrate. Stops rust, removes metal stains. Cleans ceramic tiles and painted metal surfaces.	70-199	24 oz. spray	12	25	91.68
	70-198	1 gal.	4	34	107.20
	70-200	5 gal.	1	42	127.10
(Available in 55 gallon drums)					
 KYMCARE™ (Water Soluble) General Purpose Alkaline Cleaner Good on tiles, floors, counters & public areas. Can be used in steam machines. 	55-056	1 gal.	4	34	136.72
	55-002	5 gal.	1	42	162.40
(Available in 55 gallon drums)					
 KYMCARE "PLUS"™ (Water Soluble) General Purpose Caustic Cleaner For very dirty parts and public areas. Can be used as a dip parts cleaner or general purpose heavy duty oil and grease cleaner. 	55-055	1 gal.	4	34	192.64
	55-001	5 gal.	1	42	228.70
(Available in 55 gallon drums)					
 GREEN CLEAN™ (Water Soluble) All Purpose Power Spray Degreaser All-purpose cleaner/degreaser for power spray, dip or brush cleaning of carbon, grease & grime. 	55-059	1 gal.	4	34	92.40
	55-043	5 gal.	1	42	112.80
(Available in 55 gallon drums)					
 MO CLEAN™ (Water Soluble) Traction Motor Cleaner Fast, Effective & Economical. Cleans away oil, grease and road grime. 	55-038	5 gal.	1	41	109.80
	55-041	55 gal.	1	450	1,144.00
 METAL CLEAN™ Rust & Oil Remover A multi-purpose rust and oily grime remover. Removes rust build up and oil based grime fast. Safe on most painted and unpainted hard surfaces except unpainted aluminum. 	70-209	1 gal.	4	34	216.00
	70-210	5 gal.	1	42	254.00


(See Next Page)





(1) Brush Dauber in Can (2) Blister Card (3) Squirtpout (4) Child-Resistant Cap



Precision & Parts Cleaning Chemicals

Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
Precision and Parts Cleaners cont'd.					
 BOGGY CLEAN™ (Water Soluble) Train Boggy Assembly Cleaner Long Lasting in both dip and jet spray machines.	55-050	5 gal.	1	41	91.30
	(Available in 55 gallon drums)				
 PAINT STRIP™ (Water Soluble) Heavy Duty Non-Conductive Paint Remover Heavy duty industrial paint remover. Especially effective on non-conductive paints.	55-027	1 gal.	4	34	201.84
	55-028	5 gal.	1	42	265.70
(Available in 55 gallon drums)					
 PAINT REMOVER™ (Water Soluble) Heavy Duty Paint Stripper Removes oil, acrylic & water based paints fast.	55-030	5 gal.	1	41	131.70
	55-029	55 gal.	1	450	1,398.10

Professional Train, Bus, Truck & Car Wash Chemicals

Train, Bus Body Cleaners					
 SFF-10 TB™ (Water Soluble) Heavy Duty Exterior Body Cleaner & Iron Stain Remover for Trains & Buses Dilute 100 to 1. Low foam, safe on paint, metal and surfaces.	55-226	1 gal.	4	34	188.08
	55-227	5 gal.	1	42	223.50
	55-228	55 gal.	1	450	2,267.10
 SFF-10™ (Water Soluble) Heavy Duty Exterior Body Cleaner & Carbon Remover for Trains & Buses Dilute 100 to 1. Safe on all surfaces. Low foam. Citrus formula.	55-230	5 gal.	1	42	223.50
	55-231	55 gal.	1	450	2,267.10



(1) Brush Dauber in Can (2) Blister Card (3) Squirtsput (4) Child-Resistant Cap



Professional Train, Bus, Truck & Car Wash Chemicals

Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
Train, Bus Body Cleaners cont'd					



**SFF-10 AL™ (Water Soluble)
Heavy Duty Exterior Body Cleaner
& Brightener for Trains & Buses**
Dilute 80 to 1. Best for stainless steel and aluminum bodies.



55-006	5 gal.	1	42	223.50
55-008	55 gal.	1	450	2,267.10

Tire Shine Products



**TIRE DRESSING PROTECTANT
- ALL SEASON GRADE™
Silicone Protectant for Rubber
& Vinyl for All Seasons**
Silicone-based rubber & vinyl protectant. Leaves a long-lasting shine.

		Solvent Type			
71-095	1 gal.	4	34	134.00	
71-098	5 gal.	1	42	144.00	
71-100	55 gal.	1	450	1,100.00	
		V.O.C. Compliant Type			
71-099	5 gal.	1	42	160.00	
71-101	55 gal.	1	450	1,200.00	



**TIRE DRESSING PROTECTANT
- WINTER GRADE™
Silicone Protectant for Rubber
& Vinyl for Winter**
Lessens slippery footing. Fast dry formula for cold weather.

		Solvent Type			
71-097	5 gal.	1	42	140.00	
71-102	55 gal.	1	450	1,040.00	



**TIRE DRESSING PROTECTANT
- DELUXE GRADE™
Silicone Protectant for Rubber &
Vinyl with Extra Silicone**
Extra silicone formula for a extra long-lasting shine. Recommended for summer months.

		Solvent Type			
71-096	5 gal.	1	42	161.00	
71-103	55 gal.	1	450	1,248.00	

Vinyl & Leather Interior Cleaner



**VINYL ARMOR™
Protectant**
Protects vinyl rubber and plastic. Make it look like new.



71-048	32 oz. w/ sprayer	12	25	112.00
71-049	1 gal. (4)	4	34	114.40
71-050	5 gal.	1	41	142.00
71-051	55 gal.	1	450	1,089.00

Engine, Car & Truck Body Cleaners



**GREASE GONE™
Heavy Duty Solvent-based
Engine & Parts Cleaner**
Engine and mechanical parts cleaner to be cut with mineral spirits or kerosene.

05-059	5 gal.	1	45	90.00
05-062	55 gal.	1	450	920.00



(See Next Page)

(1) Brush Dauber in Can (2) Blister Card (3) Squirrspout (4) Child-Resistant Cap





Professional Train, Bus, Truck & Car Wash Chemicals

Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
---------	-----------	------	----------------	--------------	-------------------

Engine, Car & Truck Body Cleaners cont'd

 <p>STEAM AWAY™ (Water Soluble) Heavy Duty Water-based Engine & Parts Cleaner</p> <p>Strong water-based steam cleaner for engines. Very economical.</p> 	05-061	55 gal.	1	450	982.00
	<p>TRUCK BODY CLEANERS™ (Water Soluble) Heavy Duty Exterior Truck Body Cleaner</p> <p>Strong and effective exterior truck body cleaner and degreaser. Dilute with water to desired strength.</p> 				
	Degrease⁺ 40 (Low Foam)				
	05-060	55 gal.	1	450	1,097.26
	Truck Wash Detergent (Painted Body)				
	05-075	1 gal.	4	34	82.72
	05-077	55 gal.	1	450	750.76
	Aluminum & Stainless Steel Truck Cleaner				
	05-078	1 gal.	4	34	91.96
	05-080	55 gal.	1	450	1,097.26
	CAR WASH DETERGENT™ Super Penetrating Car Wash Soap				
	05-063	5 gal.	1	42	57.76
	05-064	55 gal.	1	450	577.50
	MULTI CLEAN™ Stainless Steel & Aluminum Brightener				
	05-065	5 gal.	1	44	69.30
	05-066	55 gal.	1	450	912.46

Rim & Tire Cleaners / Drying Agents

	WHITE WALL TIRE RIM CLEANER™ (Non-Caustic) H.D. White Wall Tire Rim Cleaner				
	71-106	55 gal.	1	450	516.00
	TIRE RIM CLEANER™ (Water Soluble) Heavy Duty Tire & Rim Cleaner				
	Fast acting cleaner for all hard surfaces. Professional car wash rim cleaner.				
	Non-Acid				
	71-108	5 gal.	1	42	50.60
	71-110	55 gal.	1	440	466.40
	Acid Based				
71-105	5 gal.	1	42	55.00	
71-104 (Reg.)	55 gal.	1	450	495.00	
71-109 (HD)	55 gal.	1	450	550.00	




(1) Brush Dauber in Can (2) Blister Card (3) Squirtsput (4) Child-Resistant Cap




Professional Train, Bus, Truck & Car Wash Chemicals


Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
---------	-----------	------	----------------	--------------	-------------------

Rim & Tire Cleaners / Drying Agents cont'd


 <p>HD DRYING / RINSE AID™ Fast Dry & Shine Premium fast breaking drying agent. With added shine. Speed dries 20,000+ cars.</p>	05-069	5 gal.	1	41	111.00
	05-070	55 gal.	1	440	1,050.00


Floor & Wall Cleaners


 <p>POWDERED CONCRETE CLEANER™ HD All Purpose Cleaner Cleans concrete & masonry floors, walls, equipment and even tire rims.</p>	05-072	5 gal.	1	40	70.00
	05-073	55 gal.	1	400	650.00

 <p>CLEAN KING™ (Water Soluble) Heavy Duty Cleaner for Interior Car Wash Walls Cleans and renews car wash walls and equipment. Also good for hundreds of other cleaning applications.</p>	70-101	1 gal.	4	34	63.60
	70-102	5 gal.	1	44	76.00
	70-103	55 gal.	1	450	814.00

Odor Control

 <p>SWEET AIR DEODORIZER™ Heavy Duty Deodorizer and Air Freshner (Water Soluble) Industrial strength deodorizer & air freshner. Cherry scented.</p>	05-050	5 gal.	1	44	78.00
	05-051	55 gal.	1	450	792.00

 <p>ODOR BOMB SERIES™ Heavy Duty Deodorant Eliminates unwanted odors. Long-lasting, pleasant scents. Great for hard to rid odors. (Point of Purchase Display)</p>	Cherry Bomb				
	60-621 (Gel Cup)	8 oz.	12	6	104.40
	Orange Bomb				
	60-625 (Gel cup)	8 oz.	12	6	104.40
	60-627 (absorbant powder)	1 lb.	12	13	104.40
	60-628 (spray)	16 oz.	12	13	125.52
	Mint Bomb				
	60-630 (gel cup)	8 oz.	12	6	104.40
60-631 (absorbant powder)	1 lb.	12	13	104.40	
60-632 (spray)	16 oz.	12	13	125.52	

 <p>PURE AIR™ Gel Cup, Sprayer & Powder Odor Neutralizer Turns unwanted odors into pure smelling air. Good for vehicles, rooms, ducts, air handling units, ventilation systems and more. Eliminates odors from stagnant air, garbage, smoke, mildew & musk, animal and human waste, vomit, decay & more.</p>	60-225 (note)	8 oz. gel	12	7	104.40
	60-226	3 lb. gel tube	6	18	179.52
	60-220	16 oz. w/ spray	12	13	123.36
	60-221	1 gal. (4)	4	33	295.68
	60-222	1 lb. powder	12	13	104.40
	60-223	1 lb. 5 oz. pellets	12	16	109.68
	Note: Point of Purchase Display				

(See Next Page)



(1) Brush Dauber in Can (2) Blister Card (3) Squirtpout (4) Child-Resistant Cap






ComStar International Inc. 20-45 128th St., College Point, NY 11356 Tel (718) 445 7900 Fax (718) 353 5998 Toll Free 1 800 328 0142





www.comstarproducts.com

Page 39

Professional Train, Bus, Truck & Car Wash Chemicals

Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
Odor Control cont'd					
 <p>ODOR ELIMINATOR™ Heavy Duty Odor Neutralizer Spray on fuel oil spill after clean up to eliminate all trace of oil odor.</p>	60-215	24 oz. w/ spray	12	20	208.08
	60-216	1 gal. (4)	4	34	235.20
 <p>SWEET AIR SPRAY™ Fuel Odor Neutralizer Deodorizes fuel odors. Pleasant cherry scent.</p>	60-520	20 oz. aerosol	12	12	121.20
 <p>SWEET AIR POWDER™ Powdered Odor Remover and Absorbent Deodorizes fuel odors. Pleasant cherry scent, absorbs oil.</p>	60-620 (Powder)	15 oz.	12	9	108.00
	60-623 (Powder)	5 gal. pail	1	20	67.00
	60-622 (Powder)	55 gal. drum	1	220	773.86
	60-619 (Pellets)	1 lb. 5 oz.	12	16	103.92

Construction, Sanitation & Specialty Products

Concrete, Brick, Masonry, Tile & Metal Cleaning					
 <p>MURIATIC ACID 20 Degree (32%)™ Concrete, Metal & Tile Cleaner Fast acting for the professional.</p>	56-108	1 gal. (4)	4	34	52.40
	56-107	5 gal.	1	41	60.50
	56-109	55 gal.	1	440	635.80
 <p>MURIATIC ACID 20%™ Concrete, Metal & Tile Cleaner Fast acting for the professional.</p>	56-112	1 gal. (4)	4	34	42.08
	56-113	5 gal.	1	41	45.10
	56-114	55 gal.	1	440	457.60
 <p>NO RUN™ Brick & Masonry Cleaner Removes excess mortar and dirt from masonry, concrete & brick without run off.</p>	56-115	1 gal. (4)	4	40	65.60
	56-116	5 gal. (4)	1	42	79.80
 <p>RENEW/REVIVE/REFRESH/RESTORE™ Exterior Building & Tile Cleaners Heavy duty, low acid cleaner and brightens. Removes rust, dirt, grime stains. The four products provide cost and performance options. Can be dilute with water.</p>	RENEW 70-298	1 gal. (4)	4	34	87.60
	70-200	5 gal. (4)	1	50	107.80
	REVIVE 70-230	5 gal. (4)	1	50	78.00
	REFRESH 70-225	5 gal. (4)	1	50	78.00
	RESTORE 03-361	5 gal. (4)	1	50	116.00





(1) Brush Dauber in Can (2) Blister Card (3) Squirtsput (4) Child-Resistant Cap



Construction, Sanitation & Specialty Products

(Odor Control Products on pages 3 and 4)

Product	Stock No.	Size	Units Per Ctn.	Wt. Per Ctn.	List Price Carton
Concrete, Brick & Masonry Cleaning / Specialty Products					
 <p>WHITE BRITE™ Exterior Cleaner Cleans away iron, rust and dirt stains from most hard wall exterior surfaces. Safe on most all metals, ceramics, seal materials and painted surfaces.</p>	70-212	1 gal.	4	34	132.00
	70-213	5 gal.	1	42	154.00
 <p>SKY BLUE™ Rust, Iron & Grime Stain Remover Ready to use on steel and iron powder stains. Stops rust corrosion fast / prevents rust.</p>	70-204	1 gal. (4)	4	34	292.32
	70-205	5 gal.	1	42	92.40
(Available in 55 gallon drums)					
 <p>RENEW CREAM™ HD Metal & Ceramic Cleaner & Brightener Clean & brighten most finished metals and ceramic tiles.</p>	70-225	3 lb.	6	18	124.08
	70-226	1 gal. (4)	4	33	151.20
 <p>WATER REPELLANT FINISH REMOVER™ Water Repellant Coating Remover Wash away spills and overspraying of water repellant finishes. Corrects blushing & removes masking tape marks.</p>	55-100	24 oz. spray	12	19	94.56
	55-102	1 gal. (4)	4	33	69.28
	55-103	5 gal.	1	44	81.40
 <p>FIBER GLASS SHEEN™ Fiber Glass Cleaner Restores luster to fiber glass, acrylic, plastic, PVC, ABS, polished marble, stainless steel, formica & chrome.</p>	56-200	24 oz. spray	12	22	99.60
 <p>GLASS CLEANER™ Professional Series Professional formula for fast and easy clear glass & mirrors. Non-flammable & non-toxic. Ready to use.</p>	02-100	1 qt. w/ spray	12	15	65.28
	02-101	1 gal. (4)	4	32	41.60
 <p>WINDSHIELD WASH FLUID™ Winter Grade No Freeze Professional. Windshield Washer Fluid.</p>	02-110	1 gal. (4)	4	34	20.00
	02-111	55 gal.	1	450	270.00

(See Next Page)



(1) Brush Dauber in Can (2) Blister Card (3) Squirtpout (4) Child-Resistant Cap



List Price Information

Prices in this catalog are subject to discounts (Multiplier) for wholesales, distributors and dealers. Prices and/or multipliers are subject to change without notice. The definition of end user refers to all service and maintenance technicians and professionals. Use multiplier and list Price to calculate prices for wholesalers, distributors and dealers and for those entities to calculate a price to their customer or end user. Refrigerants have a separate price sheet.

Terms & Conditions

- Terms:** Net due in 30 days. Any invoice not paid within 30 days from the date of invoice is considered delinquent. No cash discount on discounted product prices.
- Pickup allowance:** 5% discount off of the total invoice if picked up from College Point plant only.
- Minimum Order:** None.
- Case Quantities:** All products will be shipped in full case quantities only.
- Shortages:** Any shortage in original cartons will be made good by ComStar.
- Damages/shortages On Delivery:** All damages and shortages at time of delivery must be noted on the freight bill and/or bill of lading. We can not honor any claims if not properly noted on paperwork.
- Return Policy:** ComStar will issue full credit on products returned due to defective manufacturing. No product will be accepted for return without prior authorization from ComStar. A 15% restocking charge will apply on all non-defective merchandise returned in full cases only.
- Material Safety Data Sheets:** Material Safety Data Sheets are provided on all initial orders and are available on our website www.comstarproducts.com or via phone 1-800-328-0142.
- Orders placed by e-mail:** To protect transactions secured by credit cards, we will confirm receipt of order via email or phone. No order is considered confirmed unless you receive a phone call or e-mail confirmation. Feel free to call customer service direct at 718-445-7900 or 1-800-328-0142.

Freight Rates

Shipping Discount

Shipping Rates: On Full and Half truckloads: Due to carrier changes on full and half truckloads of products, we cannot guarantee shipping rates until the day before the order is shipped via email or phone. Kindly call for rates.

ORDER SIZE	REGION 1	REGION 2
\$1,500	FREE FREIGHT	CHARGE FREIGHT
2,100	FREE FREIGHT	5% DISCOUNT
5,000	FREE FREIGHT	8% DISCOUNT
7,500	FREE FREIGHT	FREE FREIGHT

NOTE: Orders with discounted items increase order size by 15% to qualify for free freight, see refrigerant price list for freight policy on refrigerants.

REGION 1: East of Mississippi River, plus St. Louis and Little Rock, AR, and North of Washington D.C.

REGION 2: West of Region 1 and South of Washington D.C.

NOTE: Alaska & Hawaii - freight allowance applies as far as West Coast. For International orders, please call for rates.

GUARANTEE: All ComStar & IPC products are manufactured to the highest standard and are guaranteed to work as stated. If a product does not perform to your satisfaction, we will issue a credit or replace with merchandise of equal value. (Note: since plastic pipe cements and Furnace Cement have a one year shelf life, the guarantee for these products will extend for one year.)

