

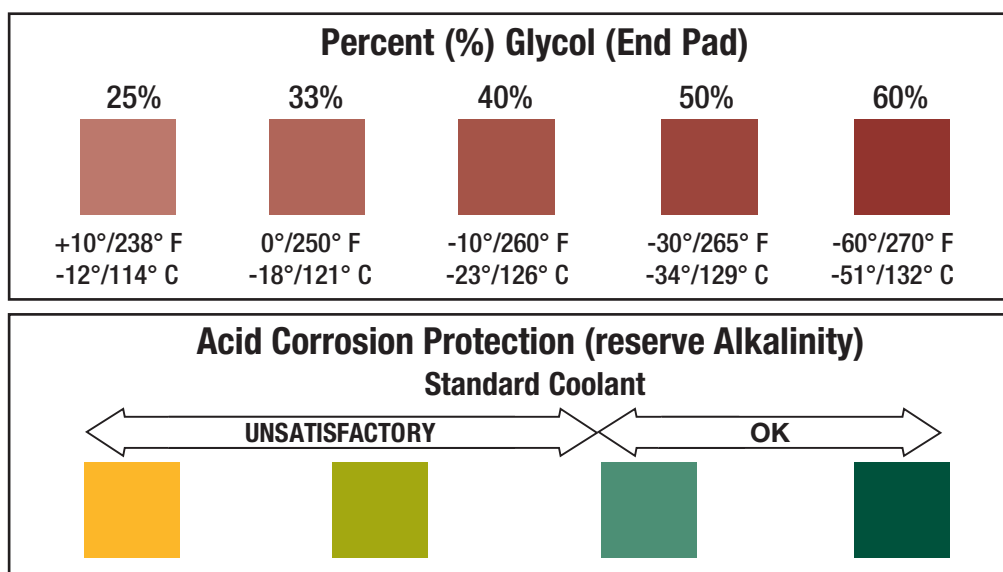
## Antifreeze for Boiler Systems

All Hercules Cryo-Tek antifreeze products combine the benefits of antifreeze along with a corrosion inhibitor through an exclusive blend of virgin (not recycled) propylene glycol and a high purity Triple Protection Inhibitor Package. Hercules' Triple Protection formula stabilizes pH to prevent acid corrosion and chelates hard water minerals, while inhibiting the formation of scale and sediment.

Cryo-Tek is compatible with PEX and elastomeric radiant tubing, commonly used materials for seals and bushings and provides corrosion protection for aluminum, cast iron, steel, copper and brass.

## Checking Freeze and Corrosion Protection Levels

Cryo-Tek Test Strips should be used to measure the propylene glycol level, as well as the corrosion protection level in boiler systems. One strip measures both. Simply dip the strip for one second and shake off excess liquid. Wait 15 seconds and compare colors on strip to the color chart below. If freeze protection is adequate, but corrosion protection is unsatisfactory, add Sludgehammer Universal Corrosion Inhibitor. If rust or sludge is visible, circulate Sludgehammer System Restorer & Noise Reducer, then drain and add Cryo-Tek antifreeze and additional Sludgehammer Universal Corrosion Inhibitor, as testing indicates.

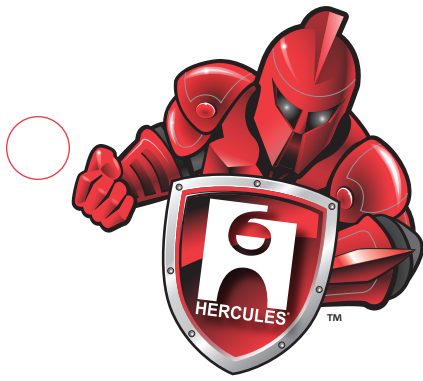


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# Hercules® **SLUDGEHAMMER™**

Products for Hydronic Heating System Maintenance  
For use with Cryo-Tek Antifreeze



When it comes to maintaining the efficiency of hydronic heating systems, nothing knocks out scale and corrosion like **Sludgehammer Universal Corrosion Inhibitor** and **Sludgehammer System Restorer & Noise Reducer**.

Use corrosion inhibitor along with antifreeze when installing new or replacement hydronic heating systems to prevent the build-up of scale and keep the system running efficiently.

Use system restorer for older systems or when a new boiler is fitted to an existing system that has sludge and scale build-up.

# Product Selection Guide

	Product Name	Description	
NEW PRODUCTS	Hercules® Sludgehammer™ System Restorer & Noise Reducer	Combination formula effectively removes sludge and corrosion while reducing boiler noise. Helps restore efficiency to all hydronic systems including aluminum and stainless steel. For use in older boiler systems or when a new boiler is fitted into an existing system that has sludge and scale build-up. Must be flushed from system after use.	
	Hercules Sludgehammer Universal Corrosion Inhibitor	Multipurpose formulation controls scale, corrosion, boiler noise and hydrogen gassing. Safe for all hydronic heating systems including aluminum and stainless steel.	
	Cryo-Tek™ Test Strips	Contains 10 color-coded disposable test strips. Each simultaneously checks level of propylene glycol and corrosion protection. Results in just 15 seconds!	
ANTI-FREEZE	Cryo-Tek Original	Virgin propylene glycol antifreeze. Pre-mixed, ready to use formula with Triple Protection Inhibitor Package.	
	Cryo-Tek AG	Concentrated arctic grade antifreeze with virgin propylene glycol. Includes Triple Protection Inhibitor Package.	
	Cryo-Tek -100	Pre-mixed, ready to use formulation with specific dilutions for various temperature protection levels. Made with virgin propylene glycol and Triple Protection Inhibitor Package.	
	Cryo-Tek -100/AL	Special orange formula for use in closed loop anti-freeze aluminum heat exchanger systems. Compatible with PEX and elastomeric radiant tubing. Made with virgin propylene glycol and special Triple Protection Inhibitor Package.	
	Cryo-Tek Solar System	For use in closed loop anti-freeze heat exchanger systems, radiant tub heating systems and geothermal loops. Compatible with PEX and elastomeric radiant tubing. Includes Triple Protection Inhibitor Package.	
SYSTEM CLEANERS	Boiler & Heating System Cleaner	Liquid cleaner and corrosion preventative treatment; helps maximize boiler efficiency of steam, hot water and hydronic systems.	
	Scout™	Low odor steam boiler cleaner. Contains fast acting trisodium phosphate.	
	Sludge Treat	Helps eliminate burner breakdown from sludge and water in fuel oil tanks.	
SYSTEM REPAIR	Boiler Liquid	Seals and repairs cracks and leaks in steam and hot water systems; low odor, priming or foaming.	
	Base Hit™ II	Seals and prevents leaks in ferrous and non-ferrous hydronic systems; works fast, won't clog components.	
	Boiler Solder	Powdered stop-leak works quickly on all steam systems; low odor, petroleum-free.	
CORROSION INHIBITORS	Cryo-Tek Inhibitor	<b>REPLACED</b> with Sludgehammer Universal Corrosion Inhibitor – see above	
	Cryo-Tek AL Inhibitor	<b>REPLACED</b> with Sludgehammer Universal Corrosion Inhibitor – see above	
MISC.	Blot-O™ Plus	Fuel oil absorber for cleaning spills - absorbs 8 times its volume of fuel oil. Sweet fragrance eliminates odors.	
	Power Flow™	Fuel additive improves combustion efficiency.	
	Flip-Stick® Soot Destroyer	Removes fuel-consuming deposits of soot and carbon from chimneys, flues and heat exchangers.	
	High Heat Furnace Cement	Use to seal and repair boilers, furnaces, flue pipes and other furnace and refractory applications. Unique patented formula meets OSHA requirements of less than 0.1% crystalline silica. Will not shrink, crack or crumble.	
	pH test Meter	Ideal for checking acidity or alkalinity of heating or potable water systems.	
	Refractometer	Fastest and easiest method for ensuring accurate ethylene and propylene glycol levels.	

	Color	Boiler Type	Compatibility	Unique Size	12 oz.	16 oz.	32 oz.	1 gallon	5 gallons	30 gallons	55 gallons
	Clear	Traditional High Efficiency	Aluminum, Stainless Steel, Copper, Galvanized Iron, Black Iron, PEX, Elastomeric Tubing				35298				
	Clear						35297				
		Traditional High Efficiency	Stainless Steel, Copper, Galvanized Iron, Black Iron, PEX, Elastomeric Tubing	35271							
	Blue	Traditional High Efficiency	Stainless Steel, Copper, Galvanized Iron, Black Iron, Plastic, Elastomeric Material					35253	35260		35267
	Blue	Traditional High Efficiency	Stainless Steel, Copper, Galvanized Iron, Black Iron, Plastic, Elastomeric Material					35282	35285	35288	35289
	Pink	Traditional High Efficiency	Stainless Steel, Copper, Galvanized Iron, Black Iron, Plastic, Elastomeric Material					35281	35284	35286	35287
	Orange	Traditional High Efficiency	Aluminum, PEX, Elastomeric Tubing						35283		35291
	Green	Solar System	Aluminum, Stainless Steel, Rubber						35280		35292
	Yellow	Steam, Traditional	Plastic, Elastomeric Material				35206	35211	35216		
	White	Steam	Stainless Steel, Copper, Galvanized Iron, Black Iron, Plastic, Elastomeric Material	4 oz. 35100							
	Light Brown	Fuel Oil	Aluminum, Stainless Steel, Copper, Galvanized Iron, Black Iron				35310				
	Reddish Brown	Traditional	Stainless Steel, Copper, Galvanized Iron, Black Iron				30115	30120			
	Blue/Green	Traditional	Aluminum, Stainless Steel, Copper, Galvanized Iron, Black Iron		30213						
	Silver/Gray	Steam	Stainless Steel, Copper, Galvanized Iron, Black Iron	200 lb. 30320		30310					
		Traditional		8 oz. 35276			35278				
		Traditional		8 oz. 35274			35277				
	Gray			19 oz. 35155							
	Light Brown				35302						
				85 g 35427							
	Regular Body Tan			16 oz. 35503		35504	35515	35610			
	Heavy Duty Gray						35521	35610			
				35272							
				35290							