



OUR BUSINESS IS HEAVY DUTY LUBRICANTS

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PRODUCT SPECIFICATIONS & TECHNICAL DATA

**KING ANTI-FREEZE + COOLANT FULL STRENGTH CONCENTRATE
CONVENTIONAL GREEN (Ethylene Glycol Based)**

UNIVERSAL FORMULA

NEW CAR ALUMINUM PROTECTION PLUS... MEETS HEAVY DUTY LOW SILICATE REQUIREMENTS

5-WAY PROTECTION:

- * Freeze-Up
- * Boil-Over
- * Rust Corrosion
- * Scale Build-Up
- * Sludge Clogging

SPECIFICATIONS:

GENERAL: Meets the performance requirements and specifications for aftermarket anti-freeze / coolants including;

HEAVY DUTY:

- * ASTM D-4985
- * SAE J1941
- * CATERPILLAR
- * JOHN DEERE H24B1
- * JOHN DEERE H24C1
- * MACK

- * GM 1899M
- * CUMMINS 90TB-4
- * RP-302B MAINTENANCE COUNCIL AMERICAN TRUCKING
- * VOLVO/GM HEAVY TRUCK

AUTOMOTIVE:

- * ASTM D-3306
- * SAE J1034
- * FORD ESE M97B44-A
- * GSA A-A870
- * ASTM D-4340
- * GM 1825M
- * CHRYSLER MS 7170

PHYSICAL & PERFORMANCE PROPERTIES

PROPERTIES	TYPICAL VALUES	ASTM TEST METHOD LATEST ISSUE
SPECIFIC GRAVITY AT 60 / 60 F	1.120-1.130	D 1122
BOILING POINT REFLUX	325 F MIN	D 1120
FOAM TEST	50 ml / 3 SEC MAX	D 1881
pH 50% VOLUME SOLUTION	10.5 MIN-11.0 MAX	D 1287
RESERVE ALKALINITY	11 ml MIN	D 1121
FLASH POINT COC	250 F MIN	D 92
TOTAL WATER	5% MAX	D 1123
TOTAL GLYCOLS	95% MIN	E 202
SILICON	250 ppm MAX	

PROTECTION CHART – DEGREE-F

FREEZE / BOIL PROTECTION (USING A 15PSI PRESSURE CAP) % of Cooling System PROTECTS FROM			COOLING SYSTEM CAPACITY IN QUARTS Quarts of Anti-Freeze Required for Protection to Temperatures (F) Shown									
Capacity	Freezing down to	Boiling up to	QUARTS	3	4	5	6	7	8	9	10	11
50%	-34 F	265 F	8	-7	-34	-69						
60%	-62 F	270 F	9	0	-21	-50	-70					
70%	-84 F	276 F	10	4	-12	-34	-62					
			11	8	-6	-23	-47	-65				
			12	10	0	-15	-34	-57				
			13		3	-9	-25	-45	-64			
			14		6	-5	-18	-34	-54	-68		
			15		8	0	-12	-26	-43	-62		
			16		10	2	-8	-19	-34	-52	-64	
			17			5	-4	-14	-27	-42	-58	-69
			18			7	0	-10	-21	-34	-50	-62
			19			9	2	-7	-16	-28	-42	-56
			20			10	4	-3	-12	-22	-34	-48

FOR BEST OVERAL PROTECTION, SOLUTION STRENGTHS WITHIN THE BLUE COLOR BAND ARE RECOMMENDED.

UNIVERSAL CORROSION PROTECTION

Very low corrosion weight changes by standard ASTM Glassware (D-1384), Simulated Service (D2570) and Vehicle Service (D-2847) test methods. These methods use 6 different metals: copper, solder, brass, steel, cast iron and aluminum commonly found in an automotive or truck cooling system.

Compatible with all nationally distributed water filters and supplemental Coolant additives. When using as a diesel coolant, SCA's must be added.