

Heavy Duty
Extended Life



MAXSAFE

antifreeze

298 Beinoris Drive, Wood Dale, IL 60191

Heavy-Duty Truck Extended Life Antifreeze Product Information Sheet

MAXSAFE premium quality Heavy-Duty Truck Extended Life antifreeze / engine coolant for use in virtually any vehicle. Engine coolant that complies with ASTM D6471 / 6472 (recycled), ASTM D6210 and TMC RP-329 (EG). The chemistry is compatible with Valvoline G-05 (Mercedes Ford & Chrysler factory fill), Fleetguard ES Compleat and other hybrid technology coolants. This type of coolant is sometimes referred to as “heavy duty extended life”, “global extended service” or “HOAT”.

MAXSAFE Extended Life Antifreeze used as directed, will result in an antifreeze/ engine coolant that may be used in virtually any engine cooling system. This technology is well proven over decades of use, and is essentially engineered to resemble the extended life coolants used in some heavy-duty vehicle plants as factory fill. MAXSAFE Extended Life Antifreeze meets, ASTM D6210, TMC RP-329 (EG), ASTM D6471 (prediluted) specifications. It is compatible with and will provide satisfactory performance in all the standards listed below and most other makes:

ASTM D-6210	International Truck[®]
Cat[®] (EC-1)	John Deere[®] (all)
Chrysler[®] (all)	Mack Trucks[®]
CNH	Mercedes (all)
Cummins Engine[®]	Thermo-King[®]
Detroit Diesel Corp[®] (93K217)	TMC RP-329/330
Ford Motor Co.[®] (all)	U S Military CID (A-A-52624-A)
Freightliner[®], Peterbilt[®]	Volvo Trucks[®]
► Please see the reverse side for further details ◀	

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Table of Properties and Typical ASTM Test Results blended with EG as Antifreeze Concentrate

Test / Property	Method	Result
Color	Visual	Red
Relative Density (Specific Gravity)	ASTM D1122	1.123
Freeze Point @ 50% in water	ASTM D1177	-38 F (-39 C)
Boiling Point (neat)	ASTM D1120	336 F (169 C)
Boiling Point (50% in water)	ASTM D1120	226 F (108 C)
pH 50% in water	ASTM D1287	10.8
Effect on Auto Finish	ASTM D1882	No effect
Chloride	ASTM D3634	9 ppm
Water content	ASTM D1123	3.1%
Reserve Alkalinity	ASTM D1121	5.9
Foaming Tendencies	ASTM D1881	50 ml / 1.6 sec. Break time
Silicate as Si	ASTM D6130	250
Nitrite (NO ₂)	ASTM D5827	2600
Molybdate (MoO ₄)	ASTM D5827	<1
Phosphate as P	ASTM D6130	<1
Sebacic acid	HPLC	800
Corrosion of heat rejecting aluminum surface	ASTM D4340	0.01 mg/cm ² /week
Cavitation / Erosion-Corrosion of Aluminum Water Pump	ASTM D2809	9
Corrosion in Glassware	ASTM D1384	Copper 3 mg Solder 1 mg Brass 2 mg Steel 2 mg Cast Iron 2 mg Cast Aluminum -2 mg
Simulated Service	ASTM D2570	Copper 3 mg Solder 5 mg Brass 3 mg Steel 2 mg Cast Iron 0 Cast Aluminum 1 mg
Glycol %	ASTM E202	95.0% min
Military Compatibility		Pass
Military Storage Stability		Pass