

Heavy Duty
Green Truck



298 Beinoris Drive, Wood Dale, IL 60191

Heavy-Duty “Pre-charged” Truck Green Antifreeze Product Information Sheet

MAXSAFE’s Green Heavy Duty Truck Antifreeze uses Penray’s 2792 advanced “fully charged, fully-formulated” antifreeze inhibitor package that features a low-silicate, phosphate-free formula to provide trouble-free service in any vehicle. Antifreeze made with virgin glycol and Penray 2792 may be used in heavy duty trucks with wet sleeve technology as well as in any liquid-cooled engine.

A concentrated formula, Penray 2792 is added to pure ethylene glycol at 2.2 vol% to achieve the product claims. Finished product will meet both ASTM heavy-duty and automotive specifications and may be used in diesel engines without a pre-charge of additional supplemental coolant additives. (Normal SCA maintenance is required).

MAXSAFE’s Heavy Duty Truck Antifreeze is designed to be compatible with and will provide satisfactory performance in most trucks and diesel engines, as well as in most automobiles, including (but not limited to) the following:

ASTM D-6210 • ASTM D-4985 • ASTM D-3306
Caterpillar Heavy Duty Coolant • Detroit Diesel • John Deere
Peterbilt • Kenworth • Mack • GM 1825M • GM 1899M
Cummins 90T8-4 • Ford • Freightliner • ASTM D-4656 Auto Pre-diluted
ASTM D-5345 Heavy Duty Pre-diluted • TMC RP-329 Type A • TMC RP-302 A
▶ SEE NEXT PAGE FOR FURTHER DETAILS ◀

APPLICATIONS FOR PENRAY 2792	
• Natural Gas Compressors	• Air compressor engines
• Drilling Equipment	• Irrigation equipment
• Heat tracing systems	• Line heaters
• Stationary Engines	• Gen-Sets
• Automotive	• Liquid cooled cogeneration equipment
• Many Heavy-duty applications	

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Penray 2792 @ 2.2% in 95.8% Ethylene Glycol and 2% Water ASTM D-3306 and D-4985 Specifications			Penray 2792
Property	ASTM Test Method	ASTM Specification	2792 Performance
Specific Gravity @ 60° F	D-1122	1.110 – 1.3145	1.125
Freezing Point F° (C°)	D-1177	50 Vol % in Distilled Water: -34°F (-37°C) Max or Lower	50 Vol % in Distilled Water: -34°F (-37°C)
Boiling Point ^A F° (C°)	D-1120	325°F (163°C) Min	327°F (164°C)
Effect: Automotive Finish	D-1882	No Effect	No Effect
Ash Content, Mass %	D-1119	5% Max	0.53%
PH: 50 Vol % in Water	D-1287	7.5 – 11.0	10.4
Chloride, PPM	By IC	25.0 Max	20.0
Water, Mass %	D-1123	5 Max	4.8
Reserve Alkalinity, ml	D-1121	Report ^B	6.8
Corrosion in Glassware Weight Loss, mg/specimen	D-1384		
Copper		10 Max	1
Solder		30 Max	8
Brass		10 Max	1
Steel		10 Max	0
Cast Iron		10 Max	0
Aluminum		30 Max	0
Simulated Service Weight Loss, Mg/specimen	D-2570		
Copper		20 Max	3
Solder		60 Max	15
Brass		20 Max	3
Steel		20 Max	2
Cast Iron		20 Max	3
Aluminum		60 Max	3
Corrosion of Cast aluminum Alloys at Heat Rejecting Surfaces mg/cm ² /Week	D-4340 ^C	1.0 Max	0.0
Foaming Volume, ml Break Time, seconds	D-1881	150 Max 5 Max	45 ml 2.7 sec
Cavitation Erosion Rating: Pitting, Cavitation or Erosion of the Water Pump	D-2809	8 Min	10

^A Some precipitate may be observed at the end of the test. This should not be cause for rejection.

^B Agreed value between supplier and customer.

^C This test is not required by ASTM D-4985; however, ASTM D-3306 requires it.

Antifreeze made with virgin Ethylene Glycol and Penray 2792 @ 2.2% by volume will yield antifreeze that is compatible with and will perform satisfactory to the standards listed below:

- ASTM D-6210, D-4985, D-3306
- Caterpillar Heavy Duty Coolant
- Freightliner 48-22880
- Ford ESE-M97B44-A Section 3.1.1 & 3.1.2
- Chrysler MS 7170
- GM 1899M
- Peterbilt, Kenworth
- TMC RP-329 Type A
- Detroit Diesel 7SE298
- Cummins 90T8-4
- GM 1825M
- John Deere JDM H24
- Mack