

## Antifreeze / Coolant

(September 2021 edition)

**AMALIE Antifreeze / Coolant** is a conventional formula designed for fleet heavy-duty cooling system applications without the need for a "pre-charge" of supplemental coolant additive (SCA). It contains a blend of ethylene glycol pre-charged with heavy-duty chemical additives. This is a nitrite containing non-carboxylic acid formulation. This formulation will protect diesel engines against liner pitting and scale deposits from hard water minerals. The formulation's chemistry affords all metals protection from corrosion and is compatible with most major brands of coolant. **AMALIE Antifreeze / Coolant** can be used in both diesel engine and light duty gasoline engine applications. The product does not require a charge of supplemental coolant additives (SCA) during initial fill or if the coolant is totally replaced.

Always consult your vehicle's owner's manual when selecting the appropriate Antifreeze/Coolant.

### Benefits

- Fully Formulated
- Amine and Phosphate Free
- Hard Water Compatible
- Excellent Liner Cavitation Protection
- Excellent High Temperature Aluminum Protection
- Prevents Corrosion of Brass, Copper, Solder, Steel, Cast Iron and Aluminum
- Available as a 50/50 Premix
- Coolant is Miscible and Compatible with Other Traditional Fully Formulated Coolants Products. It is also Compatible with Standard Heavy Duty SCAs and Coolant Filters
- This Product is Suitable for Up to 3,000 hours or 150,000 Miles in Heavy Duty Application Under Normal Operating Conditions

### Typical Physical and Chemical Properties

Characteristic	Performance	Test Method
pH•	10 - 11	ASTM D1287
Specific gravity in Premix	1.110 - 1.140	ASTM D1122
Freeze point (°C/°F)	-37/-34	ASTM D1177
Foam volume (mL)	150 max.	ASTM D1881
Foam break time (second)	5 max.	ASTM D1881
Reserve Alkalinity (mL)	2.8 Premix	ASTM D1121
Chloride (ppm)	25 max.	ASTM D3634
Silicon (ppm)	250 MAX.	ASTM D6130
Color	Green	
Glycol Content (wgt.%)	95 min.	
Inhibitors and Water Content	5 max.	
ASTM D3306	PASS	ASTM D1384
ASTM D3306	PASS	ASTM D4240
ASTM D3306	PASS	ASTM D2570
ASTM D3306	8 min.	ASTM D2809 (100 hours)

Typical values are listed. Variations not affecting the performance of this fluid may occur during production; however, these variations will not fall outside of set specification parameters.



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### Recommended For Use:

For use in all makes and models of foreign and domestic automotive light truck and heavy-duty diesel. Satisfies the performance requirements of the following antifreeze specifications and/or recommended practices.

### Specifications

TMC RP 329  
ASTM D-6210  
ASTM D-4985  
ASTM D-3306  
SAE 1941  
GM 1825  
GM 1899

### OEM/Agency

Cummins CES14603  
Navistar  
Caterpillar,  
Freightliner 48-22880  
Detroit Diesel 7SE298  
Volvo  
GM  
John Deere 8650-5,  
PACCAR Case Corp.MS1710,  
MACK  
Ford New Holland 9-86,  
EMD M.I. 1748E  
Thermo-King,  
Waukesha 4-1974D

### Meets the performance requirements of:

ASTM: D3306, D4985, D7583, D6210-10

GM: 1825M, 1899M

BS: 6580

DDC: 93K217