

PRODUCT DESCRIPTION

Permafrost Conventional HD Antifreeze/Coolant is an ethylene glycol-based engine coolant for use in heavy duty diesel engines. Permafrost Conventional HD Antifreeze contains a premium chemical inhibitor system, which is Borate based, with nitrite to protect from linear pitting and corrosion while maintaining the integrity of the engine.

Permafrost Conventional Antifreeze/Coolant is low silicate, contains a full charge of heavy-duty inhibitors, and is compatible with SCA chemical filters. Antifreezes formulated with Borate/Nitrite chemistry are recommended for use in Caterpillar (not including EC-1), Detroit Diesel, Cummins, and other heavy-duty diesel engines.

STANDARDS

Permafrost Conventional Antifreeze meets or exceeds the performance requirements of the following specifications, and meets the low-silicate limit of GM 6038M:

TMC RP 329	ASTM D-3306	GM 1899
Caterpillar (DEAC)	Case Corp. MS1710	ASTM D-6210
Volvo GM	EMD M.I 1748E	Detroit Diesel 7SE298
SAE1941	CID A-A 52624A	PACCAR
Ford New Holland 9-86	Navistar	GM 1825
Waukesha 4-1974D	ASTM D-4985	Thermo-King
Cummins CES14603	John Deere 8650-5	
Freightliner 48-22880	MACK	

PACKAGING

4x4L Jugs, 10L Pails, 20L Pails, 205L Drum, 1,000 L Tote/IBC (Intermediate Bulk Container), Truck.

TECHNICAL DATA

TYPICAL PROPERTIES		EG CONCENTRATE	EG PREMIX 50%
Color	Visual	Green	Green
Specific Gravity @ 15C	D1122	1.12	1.072
Pounds Per Gallon, 15C	-	9.346	8.935
pH (Undiluted)	D1127	10.7	10.5
Reserve Alkalinity (Undiluted)	D1121	5.9	2.8 min.
Freezing Point, C (Undiluted)	D1177	-13 max.	-37 max.
Boiling Point, C (Undiluted)	D1120	163 min.	108 min.
Water, wt% (Approx.)	D1123	3	48.7
Total Glycol, wt%	-	95.0 min.	51.0 min.
Glassware Corrosion Test	D1384	Pass	Pass
Water Pump Cavitation Test	D2809	Pass	Pass
Aluminum Corrosion Test	D4340	Pass	Pass
Simulated Service Test	D2570	Pass	Pass

Arch Distribution Inc. fully warrants that Permafrost™ Conventional HD Coolant meets or exceeds the standards outlined above. Each Permafrost product is tested prior to packaging and shipping to ensure conformity; however, suitability for the intended purpose of this product remains the responsibility of the user. Product life is also subject to appropriate operating parameters and implementation of a suitable fluid testing program for peak performance. For more information, please contact your Permafrost™ representative or Arch Distribution Inc. Permafrost™ Coolants are produced in our blending facility with Lab Grade 2 quality water to ensure product performance and specifications. If undiluted products are purchased, water quality must be equivalent or greater than distilled or deionized in order to maintain performance guarantees. If you are unsure of your water quality, please contact Arch Distribution for testing and recommendations. If water of unsuitable quality is used for dilution, Arch Distribution cannot be held liable for potential damage.



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