

PRODUCT DESCRIPTION

Permafrost Extended Life HD Antifreeze/Coolant is an ethylene glycol-based antifreeze that uses Hybrid Organic Acid Technology (HOAT/NOAT). Formulated with Nitrite for heavy-duty diesel applications, it provides maximum protection against rust and corrosion. This superior formulation does not contain Amines, Phosphate, or Silicate.

Permafrost Extended Life HD Antifreeze/Coolant is a “global” hybrid antifreeze. The HOAT/NOAT formulation provides protection against damaging rust and corrosion in automobile and truck cooling systems, including American, Asian, and European vehicles. Permafrost Extended Life HD Antifreeze/Coolant meets Caterpillar EC-1 antifreeze specifications.

STANDARDS

Permafrost ELC HD Coolant meets or exceeds the performance requirements of the following specifications:

ASTM D3306	Cummins CES14603	John Deere H24B1
ASTM D4985	Cummins SB3666132-04	John Deere H24C1
ASTM D6210	Detroit Diesel	SAE J1034
BS 6580 (British Standard)	Ford WSS-M97B51-A1	SAE J1941
Caterpillar (EC-1)	JIS K 2234	TMC RP329
Chrysler MS 7170	John Deere H-5	TMC RP330

PACKAGING

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

TECHNICAL DATA

Tests	Methods	Spec Limit
Specific Gravity, 20C	ASTM D1122	1.055 - 1.085
pH	D1287	8.0 – 9.5
Color	Visual	Red
Appearance / Sediment	Visual	Clear / None
Reserve Alkalinity, mL	D1121	3.5 Min.
Freeze Point, °C	Refractometer	-36.7
Foam (mL/Sec)	D1181	150/5
Molybdate (as Na ₂ MoO ₄ NO ₂) at 20C	IC or HACH 8153	1,510 to 1,860 mg/L

Test Parameter	ASTM Method	Result
Effect on automotive finishes	D1882	Pass
Freeze Point, °C	D1177	-37.4
Boiling Point, °C	D1120	109.3
Ash Mass %	D1119	0.336
Glassware Corrosion Test	D1384	Pass
Water Pump Cavitation Test	D2809	9
Aluminum Corrosion Test	D4340	Pass
Simulated Service Test	D2570	Pass

Arch Distribution Inc. fully warrants that Permafrost™ ELC 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.



Arch Distribution Inc.
Thorsby, Alberta, T0P 2C0
www.archdistribution.com

Box 619, #1-56 Ave, Thorsby Industrial Park
Telephone: (780) 984-0286
service@archdistribution.com