



Genuine Chemistry
From the Manufacturer of OEM Fluids



GC®

European Violet Super Extended Life Prediluted Antifreeze/ Coolant

TECHNICAL DATA SHEET

Ver. 22-01

DESCRIPTION and APPLICATIONS

GC® EUROPEAN VIOLET SUPER EXTENDED LIFE PREDILUTED ANTIFREEZE/COOLANT is a Ready-To Use Silicate-Enhanced Organic Acid Technology (Si-OAT) ethylene glycol-based coolant with an inhibitor package that uses organic acid inhibitors (non-2EH) with silicate and without any nitrites, amines, borates or phosphates. It is specifically designed to be used in any light, medium, or heavy-duty application to provide long-lasting, complete protection for all cooling system components including models equipped with indirect cooling battery systems based on electric (EV), hybrid (HEV) and plug-in-hybrid (PHEV) designs.

It is recommended for use in any European vehicle using **PURPLE/VIOLET** coolant formulation with on-road and off-road diesel, gasoline and natural gas engine applications as well as in industrial, farming, mining, construction, and military equipment.

PERFORMANCE FEATURES and BENEFITS

- **Extended life Si-enhanced organic acid (non-2EH acid) technology**

Works in all engine applications. When used as directed, the product will provide long-lasting protection for modern engines.

- **Free from 2EH acid, amines, borates, nitrites, and phosphates**

This formulation provides excellent heat transfer capabilities for high-temperature applications and a stable inhibitor package free of amines, phosphates, borates, nitrites, and 2EH acid. It is therefore the recommended choice for engine and vehicle OEMs around the globe.

- **Outstanding corrosion protection**

This product provides excellent corrosion protection as confirmed through numerous OEM tests and demonstrated in evaluations under ASTM D3306, D6210, FVW R530, and D4985 specifications. It eliminates the need for SCAs and chemically-charged filters.

- **Compatibility**

This non-abrasive product is fully compatible with other similarly formulated Si-OAT engine coolants and may improve water pump seal life. It can be mixed with other coolants (which should be kept below 25% to maintain corrosion protection properties) and provides exceptional long-term elastomer compatibility.

- **Long shelf life**

When stored in the original packaging away from moisture and direct sunlight, this product should be suitable for use up to 3~5 years after the manufacturing date. Shake well before use.

GC® European Violet Super Extended Life Prediluted Antifreeze/Coolant



SPECIFICATIONS and APPROVALS

Meets or exceeds these requirements:

ASTM D4985, ASTM D3306, ASTM D7583, ASTM D6210, JIS K2234, TMC RP 329, BS 6580, GB 29743, SAE J 814, FVV R530, DBL 7700, Deutz (DQC CC-14), AS/NZS 2108

TYPICAL PHYSICAL and CHEMICAL CHARACTERISTICS

PROPERTIES	ASTM TEST METHOD	TYPICAL VALUES FOR	
		Concentrate	50/50 Prediluted
Appearance/Color	Visual	Purple/Violet	Purple/Violet
pH, 50 vol%	D1287	8.7	8.7
Specific gravity	D1122	1.128	1.080
Freezing point, 50 vol%	D1177, D6660, 3321	-34°F (-37°C)	-34°F (-37°C)
Ash content, mass %	D1119	<5	<2.5
Chloride, ppm	D3634	<25	<25
Total water, mass %	D1123	<5	50

These characteristics are typical of current production.

FREEZE/BOIL PROTECTION CHART	Coolant/Water Ratio	PROTECTS FROM (typical values)	
		Freezing Down to	Boiling Up to*
	40/60	-13°F	260°F
50/50	-34°F	265°F	
60/40**	-62°F	269°F	

*- Using a 15 PSI Pressure Cap in Good Condition; **-for concentrate product only; ⁱ - Proper maintenance requires a complete cooling system flush, fill and subsequent topping off as needed with the same product at 50/50 dilution or mixture of concentrate with high-quality water to achieve 50/50 coolant-water ratio.

SHIPPING INFORMATION

Part #	Unit	Size	Dimensions (")	Unit weight (lbs.)	Units per Pallet	Pallets per Truck	Pallet weight (lbs.)
GC-C2E08-U-01-01	Case	6/1 gal	15.8L X 12.8W X 12.25H	60	36	20	2,210

ADDITIONAL INFORMATION

For proper freezing and boiling protection, use a traditional refractometer or hydrometer with ethylene glycol scale. Product should be kept away from children and animals to prevent potential exposure. A bittering agent is added to help reduce the potential for accidental ingestions of this product. For more information, see Safety Data Sheet for appropriate products. Always dispose of used coolant in accordance with local, state and federal guidelines.