



RUGGED™ Gold Extended-Life **Coolant & Antifreeze**

RUGGED™ Gold Extended-Life Coolant & Antifreeze features advanced “NAPS-Free” organic acid technology (OAT) chemistry that is compatible with most common types of automotive and heavy-duty coolants. It is safe to add to any color antifreeze including **Green, Yellow, Blue, Red, Fuchsia, Orange** and **Gold**. It is also suitable for use in heavy-duty applications. However, **Rugged Heavy Duty Nitrite-Free Antifreeze** provides the optimum protection in heavy-duty applications.

RUGGED™ Gold Extended-Life Coolant & Antifreeze is recommended for use in all cars, light trucks, and heavy-duty diesels, foreign and domestic. It protects all cooling system metals including aluminum from corrosion and rust. **RUGGED™ Gold Extended-Life Coolant & Antifreeze** is blended 50/50 with demineralized water to minimize hard water deposits on heads and blocks. **RUGGED™ Gold’s** nitrite-free, amine-free phosphate-free, silicate-free technology may extend the life of hoses, gaskets, thermostats and water pumps compared to silicate and/or soluble oil coolant technologies. After completely flushing the cooling system, this long-lasting formula will offer protection up to 5 years or 150,000 miles against rust corrosion and extreme temperatures.

RUGGED™ Gold Extended-Life Coolant & Antifreeze, used as directed, results in an engine coolant that may be used in virtually any engine cooling system. This technology is well proven over decades of use, and is engineered to resemble the extended life coolants used in some heavy-duty vehicle manufacturing plants as factory fill.

RUGGED™ Gold meets ASTM D3306, ASTM D6210 and TMC RP-329 (EG). **RUGGED™ Gold Extended-Life Coolant & Antifreeze**, if used as directed, will provide satisfactory performance in most cars and trucks including but not limited to the following:

- *Ford*
- *Acura*
- *Honda*
- *Mazda*
- *Nissan*
- *VW*
- *General Motors*
- *Audi*
- *Hyundai*
- *Mercedes-Benz*
- *Toyota*
- *Light-Duty Diesels*
- *Chrysler*
- *BMW*
- *Kia*
- *Mitsubishi*
- *Volvo*
- *Heavy-Duty Diesels*

And most other makes.

Table of Properties and Typical ASTM Test Results

Test / Property	Method	Result
Color	Visual	Gold (Yellow)
Relative Density (Specific Gravity)	ASTM D1122	1.065
Freeze Point @ 50% in water	ASTM D1177	-35.2 F (-37.3 C)
Boiling Point (50% in water)	ASTM D1120	226.4 F (108.0 C)
pH 50% in water	ASTM D1287	8.2
Effect on Auto Finish	ASTM D1882	No effect
Water content	ASTM D1123	50%
Reserve Alkalinity (mL)	ASTM D1121	1.2 Minimum
Cavitation / Erosion-Corrosion of Aluminum Water Pump	ASTM D2809	9
Aluminum Corrosion Test	ASTM D4340	Pass
Simulated Service Test		
Corrosion in Glassware	ASTM D1384	Pass
Glycol %	ASTM E202	50% min
Military Compatibility		Pass
Military Storage Stability		Pass

A SUPERIOR PRODUCT BY COLORADO PETROLEUM 7-24-2023 JDS