

TEC-KOOL®

DEFENSE



- For vehicles requiring DEX-COOL®
- Provides protection for all cooling system metals
- Protects up to 5 years or 150,000 miles
- Mixes with any color antifreeze

Meets or exceeds the following performance requirements and industry specifications:

- ASTM D3306
- ASTM D4340
- GM® 6277M
- TMC RP302C
- SAE J1941

TEC-KOOL Defense Orange Extended Life Light-Duty Concentrate Antifreeze/Coolant is compatible for use in all automobiles and light-duty trucks, including GM® vehicles requiring DEX-COOL® Coolant. It contains a mixture of proprietary organic acid technology (OAT) inhibitor system that is significantly more durable than conventional additive systems for automotive, light-duty use, resulting in a 5-year, 150,000 mile service life. The antifreeze is suitable for use in foreign and domestic passenger cars, vans, SUVs and light trucks requiring extended life antifreeze, compatible with European phosphate-free and Japanese silicate-free requirements.

TEC-KOOL Defense Orange Extended Life Light-Duty Concentrate Antifreeze/Coolant contains no borate, nitrate, nitrite, phosphates, silicates, or amines. It is compatible with all organic acid extended life coolants and conventional coolants. Additionally, it contains inhibitors that protect all cooling system metals. Together with the glycol base, these inhibitors combined with other additives, give year-round protection against freeze-ups, boil-overs and engine cooling system corrosion. **TEC-KOOL Defense Orange Extended Life Light-Duty Concentrate Antifreeze/Coolant** also includes ingredients to disperse minor oil leakage, prevent fouling, control hot surface scaling and it will not damage auto finishes or rubber parts and can be incidentally mixed with most major brands of OAT, HOAT and conventional antifreezes without precipitation problems.

	Product Number	UPC Code	Pack
Concentrate	1031012390CONC	859862007234	6/1 Gallon
	1031021390CONC	859862007333	Drum
	1031020390CONC	859862007340	275 Gallon Tote
	1031020390CONC	859862007357	330 Gallon Tote
50/50 Premix	10310123950/50	859862007395	6/1 Gallon
	10310213950/50	859862007364	Drum
	10310203950/50	859862007371	275 Gallon Tote
	10310203950/50	859862007388	330 Gallon Tote

TEC-KOOL Defense Orange Extended Life Light-Duty Concentrate Antifreeze For Vehicles Requiring DEX-COOL®

Physical Properties		
Antifreeze Glycols	Mass %	95.0 min.
Corrosion Inhibitors	Mass %	2.2 min.
Water	Mass %	2.8 max.
Flash Point	°F	250° F
Weight per gallon at 60°F -16°C	lbs.	9.35-9.45 min.
Silicates	Mass %	<250 ppm

% Antifreeze	Freezing Point		Boiling Point*	
	°F	°C	°F	°C
40%	-9 max.	-22 max.	220 min.	104 min.
50%	-34 max.	-36 max.	226 min.	107 min.
70%	-84 max.	-64 max.	240 min.	115 min.
*Boiling point shown at atmospheric pressure. Add 40°F for 15psi radiator cap.				

Characteristics	Specification	Company Typical	ASTM Method
Chloride	25 ppm, max.	2	D3634
Specific gravity 60/60°F	1.110-1.145	1.118	D1122
Boiling Point Undiluted	325°F/162°C min.	330	D1177
Boiling Point, 50% V/V	226°F / 107°C min.	229	D1120
Freezing Point, 50% V/V	-34F / -36°C min.	-34	D1177
Effect on engine or vehicle finish	No effect	Pass	--
Ash content, mass%	2.5 max.	2.0	D1119
pH, 50% V/V	8.0-9.5	8.8	D1287
Reserve alkalinity*	None specified	6 min.	D1121
Water mass %	None specified	2.0 max.	D1123
Color	Distinctive	Gold	--
Effect on nonmetals	No adverse effect	Pass	--
Storage stability	None specified	>1 year	--
Foaming	150 ml rise max. 5 sec. break, max.	Pass	D1881

* Reserve alkalinity (RA) is a value agreed between the customer and supplier. The RA listed above is the typical for the additive package being used.

NOTE: All laws/regulations should be observed when disposing of Antifreeze/Coolant. Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/state/national/international regulations.