

TEC-KOOL®

DEFENSE



TEC-KOOL® Defense Yellow Euro Premix Extended Life Antifreeze/Coolant is recommended for use in BMW®, Mercedes-Benz®, Volvo®, and other newer model light-duty gasoline or diesel powered vehicles requiring a nitrite, amine and phosphate (NAP) free, organic acid technology (OAT) engine coolant. TEC-KOOL® Defense Yellow Euro Premix Extended Life Antifreeze/Coolant is an ethylene glycol based antifreeze/coolant using hybrid organic acid technology (HOAT) to provide extended protection against rust, corrosion and pitting, caused by cavitation for all coolant system metals, including aluminum.

TEC-KOOL® Defense Yellow Euro Premix Extended Life Antifreeze/Coolant protects against radiator freeze-up down to -37° C and boil-over to 129° C (with a 100 kilopascal (15 psi) radiator cap in good condition). When added as an initial fill and properly maintained in accordance with engine manufacturer's maintenance recommendation, TEC-KOOL® Defense Yellow Euro Premix Extended Life Antifreeze/Coolant will provide up to 150,000 miles or 5 years of service life protection in automotive applications. For best results, do not mix with conventional high pH, phosphate, borate or silicate based coolants.

- Protects up to 5 years or 150,000 miles
 - Low-silicate OAT
 - For diesel and gasoline engines
- Meets or exceeds the following performance requirements and industry specifications:

- ASTM D3306
- ASTM D6210-17
- ASTM D7583
- BS 6580
- VW® TL 774-G

Phosphate-free for use in European vehicles, such as:

- BMW®
- Jaguar®
- Mercedes-Benz®
- Mini®
- Smart®
- Volvo®

Product Number		UPC Code	Pack
50/50 Premix	10310126050/50	855986008027	6/1 Gallon

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TEC-KOOL® Defense Yellow Euro Premix Extended Life Antifreeze

% Antifreeze	Freezing Point		Boiling Point*	
	°F	°C	°F	°C
50%	-34 max	-37 max	226 min	108 min
*Boiling point shown at atmospheric pressure. Add 40°F for 15psi radiator cap.				

Characteristics	Specification	Company Typical	ASTM Method
Chloride, ppm	25 ppm, max.	<25	D3634
Specific gravity 60/60°F	1.060 - 1.080	1.070	D1122
Boiling Point, 50% V/V	108°C / 226°F min.	110°C / 230°F	D1120
Freezing Point, 50% V/V	-37°C / -34°F max.	-36.7°C / -34°F	D1177
Effect on engine or vehicle finish	No effect	No effect	D1882
Ash content, mass%	2.5 max.	1.1	D1119
pH, 50% V/V	7.0 - 11.0	8.7	D1287
Reserve alkalinity, ml	None specified	1.5 max.	D1121
Color	Distinctive	Yellow	--
Effect on nonmetals	No adverse effect	Pass	--
Total water, mass %	53 max.	50	D1123
Foam volume, ml Foam break time, second	150 ml rise max. 5 sec. break, max.	Pass	D1881

Values are typical for 50/50 Premix Coolant.

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.