

KOST USA DefendAL®

Global Automotive Extended Life Coolant/Antifreeze



Approved for use in all makes and all models of foreign and domestic passenger vehicles and light duty trucks

Compatible with any coolant/antifreeze, regardless of color
5 years | 150,000 miles protection

DefendAL® Global Automotive Extended Life Coolant/Antifreeze is a premium quality, ethylene glycol-based fluid specially formulated with industry-leading additives to provide optimum performance in all makes and all models of cars and light duty trucks. The product can also be used in heavy duty diesel applications.*

DefendAL® Global Automotive Extended Life Coolant/Antifreeze is your cooling system's best defense.

- Premium quality, extended life coolant.
- Provides up to 5 years or 150,000 miles of protection.
- Ideal for top-off or replacement. User-friendly color does not change the color of the coolant already in the reservoir.
- Free of phosphates, borates, nitrites, silicates, and amines.
- Protects against corrosion of all cooling system metals, including aluminum.
- High-quality defoamer system, non-harmful to hoses, plastics or gaskets.
- Compatible with all major American brands of coolant technologies including conventional and Organic Acid Technology (OAT).
- Formulated for use in all vehicles requiring DEX-COOL®** coolant.

Available in:

Concentrate

Bulk #10189

Totes #10186

Drums #10190

Cases #10191

50/50 Premix

Bulk #10195

Totes #10193

Drums #10198

Cases #10200

*Formulation can be used with the addition of SCA (Supplemental Coolant Additives) in heavy duty vehicles. Consult your vehicle's owner's manual for recommendations.

**DEX-COOL® is a registered trademark of the General Motors Corporation®.



Think of our products as
Liquid Assets.™



KOST® USA, Inc. recommends to always properly dispose of spent coolant. Contact your state or local municipality for instructions on proper disposal to protect our environment. If a coolant spill occurs, call local authorities and ask for proper instruction on how to clean up the spill.



Global Automotive Extended Life Coolant/Antifreeze

ASTM D3306
 ASTM D4985
 Chrysler MS-7170
 Daimler DBL 7700.00
 Daimler DBL 7700.10
 Daimler DBL 7700.20
 Daimler DBL 7700.30
 EMD MI 1748F
 Ford ESE-M97B18-C
 Ford ESE-M97B44-A
 Ford WSS-M97B44-D
 Ford WSS-M97B51-A1
 Ford WSS-M97B55-A
 GM B 040 1065 - GM 6277M
 GM 6277M (DEX-COOL®)**
 GM 1825M
 GM 6038M
 GM 1899M
 John Deere JDM H24B, C
 John Deere JDS-G135
 Kia MS 591-08
 Komatsu KES 07 892
 Liebherr
 Mack GS17004
 MAN 324 Type N
 MAN 324 Type SNF
 MTU 5048
 MWM Deutz TR0199-99-1115
 Navistar CEMS B-1 Type I
 Navistar CEMS B-1 Type III
 Navistar CEMS B-1 Type IIIA
 Nissan
 SAE J1034
 SAE J1941
 TMC RP 302A
 TMC RP 302B
 TMC RP 303C
 TMC RP 329
 Toyota TSK 26016
 VW TL774-D/F
 Wisconsin Motors (Continental)

	ASTM Method	Concentrate	50/50
Glycols Content, mass %	GC	93.5	47
Bittering Agent (yes/no)		Yes	Yes
Water Content, mass %	D1123	2	50.8
Corrosion Inhibitor System, mass %		4.5	2.2
Specific Gravity @ 60°F	D1122	1.118	1.07
Flash Point	D97	240°F (116°C)	N/A
pH	D1287	8.8	8.5
RA	D92	5	2.5
Storage Stability		5 years	5 years
Effect on Non-Metals	D1882	No Effect	No Effect
Cavitation Erosion Rating	D2809	8 min	8 min
Foam Test, ml/sec	D1881	<50/3	<50/3
Fluid Color	Visual	Yellow	Yellow
Coolant/Antifreeze % 40/60 Freeze Point	D1177	-24°F (-12°C)	N/A
Coolant/Antifreeze % 50/50 Freeze Point	D1177	-34°F (-36°C)	-34°F (-36°C)
Coolant/Antifreeze % 60/40 Freeze Point	D1177	-62°F (-52°C)	N/A
Coolant/Antifreeze % 40/60 Boil Point	D1177	221°F (105°C)	N/A
Coolant/Antifreeze % 50/50 Boil Point	D1120	226°F (108°C)	226°F (108°C)
Coolant/Antifreeze % 60/40 Boil Point	D1120	234°F (112°C)	N/A
Ash Content	D1120	<5.0	<2.5
Chloride (mg/L)	D1119	<25	<25
Silicon Content (mg/L)	D3634	<10	<10

All reasonable care has been taken to ensure that the information herein is accurate as of the date of printing. Freedom to use any patent owned by KOST® USA, Inc. or others is not to be inferred from any statement contained herein. The test results listed are typical properties only. Formula and blending changes may result in slight color and appearance changes.

Always consult your vehicle's owner's manual for proper fluid removal and flushing procedures.

*Meets performance requirements but may or may not meet certain chemical requirements.

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Our products are cool. Our people are warm. KOST® USA, Inc. is the largest family-owned manufacturer, supplier and marketer of antifreeze and functional fluids in the United States. Founded in 1985, our headquarters and manufacturing facility is strategically located in Cincinnati, Ohio. We build our customers' brands and our own brands through high performance products and superior service, focusing primarily in the Automotive & Heavy Duty retail aftermarket, as well as in the Oil & Gas sector.

It's more than business... it's personal.