

Ethylene Glycol (EG) Coolants North American Market	Color	Inhibitor Package										Meets Specifications							
		Light Duty		Heavy Duty				Notes				OEM						Other	
		Conventional High Silicate*	Conventional Low Silicate w/out SCA	Conventional Fully Formulated with SCA	Hybrid (HOAT)	OAT (2-ethyl-hexanoic acid)	OAT (other organic acid)	w/out Silicate	w/out Phosphate	w/out Borate	Full OAT	Daimler Chrysler	Ford	GM	CAT	Cummins	DDC	TMC RP329	ASTM D6210
<i>Passenger Car High Silicate</i>	Green	X										<2003	<2003	<1995					
Arctic Blend™ Universal	Green		X									<2003	<2003	<1995					
Fleetguard Universal™ Low Silicate	Green		X									<2003	<2003	<1995					
Fleetguard Universal™ Recycled Coolant	Green		X									<2003	<2003	<1995					
Shell Shellzone® Low Silicate	Green		X									<2003	<2003	<1995					
Universal Low Silicate	Green		X									<2003	<2003	<1995					
Arctic Blend™ HD Fully Formulated	Pink			X						X					X	X	X	X	X
CAT® Diesel Engine Antifreeze Coolant	Pink			X						X					X	X	X	X	X
Detroit Diesel PowerCool®	Pink			X						X					X	X	X	X	X
Fleetguard ES Compleat™	Blue			X											X	X	X	X	X
Fleetguard Fleetcool™	Pink			X						X					X	X	X	X	X
Fleetguard Fleetcool™ Recycled Coolant	Green			X						X					X	X	X	X	X
Old World Industries Fleet Charge®	Pink			X						X					X	X	X	X	X
Prestone® Heavy Duty	Pink			X						X					X	X	X	X	X
Arctic Blend™ G-Plus	Yellow				X						X	X					X	X	
DaimlerChrysler / Mopar® 2003	Orange				X					X		X	X						
Fleetguard Fleetcool™ EX	Pink				X					X					X	X	X	X	X
Ford Motorcraft® Premium Gold	Yellow				X						X	X							
Peak CF-EXL® Extended Life Coolant	Yellow				X						X	X					X	X	
Valvoline Zerex® G-05	Yellow				X						X	X							
CAT® ELC	Red					X			X	X	X	X			X	X**	X	X	X
ChevronTexaco Delo™ Extended Life Coolant	Red					X			X	X	X	X			X	X**	X	X	X
GM DEX-COOL®	Orange					X			X	X	X	X	X						
Prestone® Extended Life 5/150	Orange					X			X	X	X	X	X						
Shell Rotella® Extended Life Coolant	Red					X			X	X	X	X			X	X**	X	X	X
Texaco Havoline® DEX-COOL®	Orange					X			X	X	X	X			X				
Texaco Havoline® Extended Life Coolant	Red					X			X	X	X	X			X	X**	X**	X	X
Valvoline Zerex® ExtremeLife™ 5/150	Orange					X			X	X	X	X			X				
Valvoline Zerex® Extended Life Extreme 3/300	Red					X			X	X	X	X			X	X	X	X	X
Detroit Diesel PowerCool Plus®	Red						X		X	X	X	X			X	X	X		X
Old World Industries Final Charge®	Red						X		X	X	X	X			X	X	X		X
Fleetguard ES Optimax™	Red						X		X	X	X	X			X	X	X		X
Compatibility***																			
Conventional High Silicate		X																	
Conventional Low Silicate w/out SCA			X																
Conventional Fully Formulated with SCA				X	X														
Hybrid (HOAT)				X	X	X	X												
OAT (2-ethyl-hexanoic acid)						X	X												
OAT (other organic acid)						X	X												

Comments

*Do not use SCA with conventional high silicate antifreezes

**Requires special silicate additive liquid or silicate filter to protect certain gasket materials

***Mixing different types of antifreezes can reduce their corrosion protection. Engine manufacturers recommend a 10% limit on mixing coolant types.

Heavy Duty conventional coolants are antifreeze products treated with some or all of the following inorganic corrosion inhibitors. Hybrid coolants are composed of organic acid technology combined with strong inorganic buffer agents like borate compounds. Full OAT coolants are antifreeze products whose primary inhibitor package is composed of organic acid compounds. OAT coolants containing 2-ethyl hexanoic acid (2-EH) were originally introduced by Texaco, Inc. "Other" OAT coolants are composed of other proprietary organic acid combinations instead of 2-ethyl hexanoic acid. Automotive High Silicate antifreeze contains large doses of silicate additives for the protection of light duty automotive engines. They should never be used with supplemental coolant additives on a regular basis. Where coolants composed of 2-EH acid show as approved for Cummins (X*), a special silicate additive liquid or silica

inhibitors: nitrite, molybdate, borate, phosphate, silicate.
or phosphate.
with minimal or no amounts of buffer agents.

iles and trucks with aluminum cooling system components.

ite filter is required to protect specific gasket materials in the engine.

Conventional HD Precharged Coolants

North America Market Ethylene Glycol (EG) Base Coolants	Color	TMC RP329	ASTM D6210	2-EH Acid	Other OAT
Fleetguard ES Compleat	Blue	X	X		
CAT Diesel Engine Antifreeze Coolant	Fuchsia	X	X		
Detroit Diesel Power Cool	Fuchsia	X	X		
Fleetguard Fleetcool	Fuchsia	X	X		
Fleetguard Fleetcool EX	Fuchsia	X	X		X
Old World Industries Fleetcharge	Fuchsia	X	X		
Prestone Heavy Duty	Fuchsia	X	X		

**Conventional
with SCA**

X
X
X
X
X
X
X

North America Market	Ethylene Glycol (EG) Base Coolants	Color	TMC RP329	ASTM D6210	OAT		HD Conventional with SCA	ASTM D4985		HD Hybrid	Full OAT	Silicate Free	Phosphate Free	Borate Free	Meets Specifications					
					with 2-EH Acid	Other OAT		Low Silicate without SCA	Conventional without SCA						Daimler Chrysler	Ford	GM	CAT	Cummins	DDC
	Fleetguard ES Compleat	Blue	X	X			X										X	X	X	
	CAT Diesel Engine Antifreeze Coolant	Fuchsia	X	X			X						X				X	X	X	
	Detroit Diesel Power Cool	Fuchsia	X	X			X						X				X	X	X	
	Fleetguard Fleetcool	Fuchsia	X	X			X						X				X	X	X	
	Fleetguard Fleetcool EX	Fuchsia	X	X		X	X		X				X				X	X	X	
	Old World Industries Fleetcharge	Fuchsia	X	X			X						X				X	X	X	
	Prestone Heavy Duty	Fuchsia	X	X			X						X				X	X	X	
	Automobile High Silicate	Green															<2003	<2003	<1995	
	Fleetguard Universal Low Silicate	Green						X									<2003	<2003	<1995	
	Shellzone Low Silicate	Green						X									<2003	<2003	<1995	
	Universal Low Silicate	Green						X									<2003	<2003	<1995	
	DaimlerChrysler / Mopar 2003	Orange				X			X				X			X	X			
	GM DEXCOOL	Orange			X						X	X	X	X				X		
	Prestone Extended Life 5/150	Orange			X						X	X	X	X				X		
	Texaco Havoline DEXCOOL	Orange			X						X	X	X	X				X		
	Valvoline Zerex ExtremeLife 5/150	Orange			X						X	X	X	X				X		
	CAT ELC	Strawberry Red	X	X	X						X	X	X	X				X	X*	X
	ChevronTexaco Delo ELC	Strawberry Red	X	X	X						X	X	X	X				X	X*	X
	DDC Power Cool Plus (OWI)	Strawberry Red		X		X					X	X	X	X				X	X	X
	Fleetguard ES Optimax	Strawberry Red		X		X					X	X	X	X				X	X	X
	Final Charge (OWI)	Strawberry Red		X		X					X	X	X	X				X	X	X
	Shell Rotella ELC	Strawberry Red	X	X	X						X	X	X	X				X	X*	X
	Texaco Havoline ELC	Strawberry Red	X	X	X						X	X	X	X				X	X*	X*
	Zerex Extended Life Extreme 3/300	Strawberry Red	X	X	X						X		X	X				X	X	X
	Ford Motorcraft Premium Gold	Yellow				X				X										
	Valvoline Zerex G-05	Yellow				X				X						X	X			
	Fleetcool G-Plus	Yellow	X	X		X				X						X	X			
	Peak CF-EXL Extended Life Coolant	Yellow	X	X		X				X						X	X			

Ethylene Glycol (EG) Coolants North American Market	Color	Inhibitor Package									Meets Specifications								
		OAT	OAT (other)	HD Conventional with SCA	Low Silicate Conventional w/out SCA	HD Hybrid	Full OAT	w/out Silicate	w/out Phosphate	w/out Borate	TMC RP329	ASTM D6210	OEM						
													Daimler Chrysler	Ford	GM	CAT	Cummins	DDC	
Artic Blend HD Fully Formulated	Pink			X					X		X					X	X	X	
Artic Blend HOAT	Yellow		X					X			X	X	X	X					
Artic Blend Universal	Green				X									<2003	<2003	<1995	X	X	X
Automobile High Silicate	Green													<2003	<2003	<1995			
CAT Diesel Engine Antifreeze Coolant	Pink			X					X	X	X	X	X				X	X	X
CAT ELC	Red	X						X	X	X	X	X	X				X	X*	X
ChevronTexaco Delo ELC	Red	X						X	X	X	X	X	X				X	X*	X
DaimlerChrysler / Mopar 2003	Orange		X						X					X	X				
DDC Power Cool Plus (OWI)	Red		X					X	X	X	X	X	X				X	X	X
Detroit Diesel Power Cool	Pink			X					X		X	X	X				X	X	X
Final Charge (OWI)	Red		X					X	X	X	X	X	X				X	X	X
Fleetguard ES Compleat	Blue			X							X	X	X				X	X	X
Fleetguard ES Optimax	Red		X					X	X	X	X	X	X				X	X	X
Fleetguard Fleetcool	Pink			X					X		X	X	X				X	X	X
Fleetguard Fleetcool EX	Pink		X	X					X		X	X	X				X	X	X
Fleetguard Universal Low Silicate	Green				X									<2003	<2003	<1995			
Ford Motorcraft Premium Gold	Yellow		X					X									X		
GM DEXCOOL	Orange	X						X	X	X	X								
Old World Industries Fleetcharge	Pink			X					X		X	X	X				X	X	X
Peak CF-EXL Extended Life Coolant	Yellow		X					X			X	X	X	X	X				
Prestone Extended Life 5/150	Orange	X						X	X	X	X	X	X			X			
Prestone Heavy Duty	Pink			X					X		X	X	X				X	X	X
Shell Rotella ELC	Red	X						X	X	X	X	X	X				X	X*	X
Shellzone Low Silicate	Green				X									<2003	<2003	<1995			
Texaco Havoline DEXCOOL	Orange	X						X	X	X	X	X	X			X			
Texaco Havoline ELC	Red	X						X	X	X	X	X	X				X	X*	X*
Universal Low Silicate	Green				X									<2003	<2003	<1995			
Valvoline Zerex ExtremeLife 5/150	Orange	X						X		X	X					X			
Valvoline Zerex G-05	Yellow		X						X					X	X				
Zerex Extended Life Extreme 3/300	Red	X						X		X	X	X	X				X	X	X

North America Market	Color	ASTM D4985										Meets Specifications															
		TMC RP329	ASTM 5210	Nitrite	Molybdate	Phosphate	Borate	Silicate	OAT with 2-EH	Other OAT	Scale Inhibitor	TT / MBT Defoamer	HD Conventional with SCA	HD Conventional without SCA	HD Hybrid	Full OAT	Silicate Free	Phosphate Free	Borate Free	Daimler Chrysler	Ford	GM	CAT	Cummins	DDC		
Fleetguard ES Complet	Blue	X	X	X	X	X	X	X			X	X	X											X	X	X	
CAT Diesel Engine Antifreeze Coolant	Fuchsia	X	X	X				X	X		X	X	X					X						X	X	X	
Detroit Diesel Power Cool	Fuchsia	X	X	X				X	X		X	X	X					X						X	X	X	
Fleetguard Fleetcool	Fuchsia	X	X		X			X	X		X	X	X					X						X	X	X	
Fleetguard Fleetcool EX	Fuchsia	X	X	X	X			X	X		X	X	X					X						X	X	X	
Old World Industries Fleetcharge	Fuchsia	X	X	X				X	X		X	X	X					X						X	X	X	
Prestone Heavy Duty	Fuchsia	X	X	X				X	X		X	X	X					X						X	X	X	
Automobile High Silicate	Green																										
Fleetguard Universal Low Silicate	Green					X		X			X	X												<2003	<2003	<1995	
Shellzone Low Silicate	Green					X		X			X	X												<2003	<2003	<1995	
Universal Low Silicate	Green																							<2003	<2003	<1995	
DaimlerChrysler / Mopar 2003	Orange			X				X	X		X	X												X	X		
GM DEXCOOL	Orange								X		X	X													X		
Prestone Extended Life 5/150	Orange								X		X	X													X		
Texaco Havoline DEXCOOL	Orange								X		X	X													X		
Valvoline Zerex ExtremeLife 5/150	Orange								X		X	X													X		
CAT ELC	Strawberry Red	X	X	X	X				X		X	X						X	X	X	X				X	X*	X
ChevronTexaco Delo ELC	Strawberry Red	X	X	X	X				X		X	X						X	X	X	X				X	X*	X
Detroit Diesel Power Cool Plus (OWI)	Strawberry Red	X	X		X						X	X						X	X	X	X				X	X*	X
Fleetguard ES Optimax	Strawberry Red		X		X						X	X						X	X	X	X				X	X*	X
Old World Industries Final Charge (OWI)	Strawberry Red		X		X						X	X						X	X	X	X				X	X*	X
Shell Rotella ELC	Strawberry Red	X	X	X	X				X		X	X						X	X	X	X				X	X*	X
Texaco Havoline ELC	Strawberry Red	X	X	X	X				X		X	X						X	X	X	X				X	X*	X*
Valvoline Zerex Extended Life Extreme 3/300	Strawberry Red	X	X		X				X		X	X						X	X	X	X				X	X*	X
Ford Motorcraft Premium Gold	Yellow			X				X	X		X	X															
Havoline Zerex (L24)	Yellow			X				X	X		X	X															
Fleetguard G-Plus	Yellow	X	X								X	X													X	X	

Heavy Duty conventional coolants are antifreeze products treated with some or all of the following inorganic corrosion inhibitors: nitrite, molybdate, borate, phosphate, silicate.

Hybrid coolants are composed of organic acid technology combined with strong inorganic buffer agents like borate or phosphate.

Full OAT coolants are antifreeze products whose primary inhibitor package is composed of organic acid compounds with minimal or no amounts of buffer agents.

OAT coolants containing 2-ethyl hexanoic acid (2-EH) were originally introduced by Texaco, Inc.

"Other" OAT coolants are composed of other proprietary organic acid combinations instead of 2-ethyl hexanoic acid.

Automotive High Silicate antifreeze contains large doses of silicate additives for the protection of light duty automobiles and trucks with aluminum cooling system components.

They should never be used with supplemental coolant additives on a regular basis.

Where coolants composed of 2-EH acid show as approved for Cummins (X*), a special silicate additive liquid or silicate filter is required to protect specific gasket materials in the engine.