



# ANTIFREEZE/COOLANT

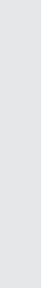


THE RIGHT MATCH FOR YOUR VEHICLE

# PRODUCT GUIDE

# A FULL SELECTION OF A

## PROPERTIES ▼

				
	<b>EXTENDED LIFE GREEN</b>	<b>EXTENDED LIFE BLUE</b>	<b>EXTENDED LIFE RED</b>	<b>EXTENDED LIFE PINK</b>
APPLICATION	Asian cars and light duty trucks requiring an OAT engine coolant.	Newer Asian cars and light duty trucks requiring a phosphate based OAT engine coolant.	Asian automotive and light duty vehicles requiring an OAT engine coolant.	New light duty vehicles requiring a phosphate based OAT engine coolant.
SPECIALLY FORMULATED FOR	Hyundai, Infiniti, Kia, Mazda, Mitsubishi, Nissan, Subaru, Acura, Honda, Suzuki, Isuzu	Acura, Honda, Infiniti, Nissan, Subaru, Suzuki, Mazda*, Mitsubishi†	Lexus, Toyota, Scion	Lexus, Toyota, Scion
FORMULATION	Silicate, borate, nitrite and amine free.	Silicate, borate, nitrite and amine free.	Silicate, borate, nitrite and amine free.	Silicate, borate, nitrite and amine free.
PERFORMANCE FEATURE	ENGINEERED FOR HIGH HEAT			
LIQUID COLOR	<b>Green</b>	<b>Blue</b>	<b>Red</b>	<b>Pink</b>
SPECIFICATION/ PERFORMANCE LEVEL	ASTM D3306 JIS K2234	ASTM D3306 JIS K2234	ASTM D3306 JIS K2234	ASTM D3306 JIS K2234
RECOMMENDED CHANGE INTERVAL	150,000 miles* or 5 years service protection	150,000 miles* or 5 years service protection	150,000 miles* or 5 years service protection	150,000 miles* or 5 years service protection
COMPATIBILITY	Compatible with other similarly formulated HOAT/OAT coolants. For best results, do not mix with conventional high pH, borate or silicate based coolants.	Compatible with other similarly formulated HOAT/OAT coolants. For best results, do not mix with conventional high pH, borate or silicate based coolants.	For best results, do not mix with conventional high pH, borate or silicate based coolants.	For best results, do not mix with conventional high pH, borate or silicate based coolants.
CONCENTRATE 1 U.S. GALLON	86-374GROEM	86-174BOEM	86-374ROEM	86-174POEM
50/50 PRE-DILUTED 1 U.S. GALLON	86-384GROEMH	86-184BOEMH	86-384ROEMT	86-184POEMH
50/50 PRE-DILUTED 55 U.S. GALLON	86-389GROEMH	86-189BOEMH	86-389ROEMT	86-189POEMH

Ethylene Glycol based fluids.

# F ANTIFREEZE/COOLANT FORMULATIONS

				
<b>EXTENDED LIFE PINK</b>	<b>EXTENDED LIFE GOLD</b>	<b>EXTENDED LIFE ORANGE</b>	<b>EXTENDED LIFE EURO I</b>	<b>EXTENDED LIFE EURO II</b>
Newer Asian automotive and light duty vehicles requiring a phosphate based OAT engine coolant.	North American gasoline and light duty diesel vehicles.	North American gasoline and light duty diesel vehicles requiring a pure OAT engine coolant. **Can be used in GM Cars and Trucks requiring Dex-Cool®	Newer European gasoline and light duty diesel powered vehicles requiring a nitrite, amine and phosphate (NAP) free, OAT engine coolant.	European gasoline and light duty diesel powered vehicles requiring a nitrite, amine and phosphate (NAP) free, OAT engine coolant.
<b>Lexus†, Toyota†, Scion†</b>	<b>Chrysler, Dodge, Jeep, Ford, Lincoln, Mercury</b>	<b>Chevrolet, Cadillac, Buick, GMC, Hummer, Pontiac, Oldsmobile, Saturn, Saab, Chrysler†, Ford†</b>	<b>BMW, Jaguar, Mercedes-Benz, Mini, Smart, Volvo</b>	<b>Audi, Volkswagen, Porsche</b>
Silicate, borate, nitrite and amine free.	Low silicate, phosphate and amine free.	Silicate, borate, nitrate, nitrite, phosphate and amine free.	Low silicate OAT. Nitrite, amine & phosphate (NAP) free.	Low silicate OAT. Nitrite, amine & phosphate (NAP) free.

## GH HEAT ENGINES. MAXIMUM ALUMINUM PROTECTION.

	<b>Pink</b>	<b>Gold</b>	<b>Orange</b>	<b>Blue</b>	<b>Pink</b>
	ASTM D3306 JIS K2234	ASTM D3306, GM 1825M, 1899M Chrysler MS7170, MS9769 SAE J1034 JIS K2234 US Fed A-A-870-A Ford WSS-M97B51-A1	ASTM D3306 JIS K2234 VW TL 774D GM 6277M Chrysler MS12106 Ford WSS-M97B44-D	ASTM D3306 BS6580 ASTM D6210-10 ASTM D7583 VW TL774G+	ASTM D3306 BS6580 VW TL774F
	150,000 miles* or 5 years service protection	150,000 miles* or 5 years service protection	150,000 miles* or 5 years service protection	150,000 miles* or 5 years service protection	150,000 miles* or 5 years service protection
with or	For best results, do not mix with conventional high pH, borate or silicate based coolants.	For best results, do not mix with conventional high pH coolants.	Compatible with other similarly formulated OAT coolants. For best results, do not mix with conventional high pH, phosphate, borate or silicate based coolants.	For best results, do not mix with conventional high pH, phosphate, borate or silicate based coolants.	For best results, do not mix with conventional high pH, phosphate, borate or silicate based coolants.
	86-174POEM	86-734GOEM	86-374OEM	86-314BOEME	86-314POEMWW
	86-184POEMT	86-834GOEMFC	86-384OEMGM	86-324BOEME	86-324POEMWW
	86-189POEMT	86-839GOEMFC	86-389OEMGM	86-329BOEME	86-329POEMWW

The information above includes recommendations for aftermarket coolants. Refer to owner's manual for suggested manufacturer's coolants and warranty issues.

\*When properly diluted and added as an initial fill.

**Chrysler†** - 2012 and newer models  
**Ford†** - 2010 and newer models  
**Mitsubishi†** - applicable on Raider 2006-2009  
**Lexus†, Toyota†, Scion†** - 2004 and newer vehicles  
**Mazda†** - applicable on select year light duty truck B-Series & Tribute  
 ††Dexcool® is a registered trademark of General Motors Corporation.

# EXTENDED LIFE **GREEN**

## ANTIFREEZE/COOLANT



### IF YOU'RE AN ASIAN VEHICLE OWNER, YOU'VE FOUND YOUR MATCH WITH OEM EXTENDED LIFE **GREEN**.

Meeting or exceeding these particular vehicle specifications, OEM Extended Life GREEN Antifreeze/Coolant provides excellent high temperature aluminum protection and extended protection against rust, corrosion and pitting caused by cavitation for all coolant system metals. \*When added as an initial fill and properly maintained in accordance with engine manufacturer's maintenance recommendation, OEM GREEN provides superior performance for these Asian cars or light duty trucks requiring an OAT engine coolant.

APPLICATION	RECOMMENDED CHANGE INTERVAL
Asian cars and light duty trucks requiring an OAT coolant.	150,000 miles* or 5 years of service protection.
VEHICLE MAKES	COMPATIBILITY
Hyundai, Infiniti, Isuzu, Kia, Mazda, Mitsubishi, Nissan, Subaru, Acura, Honda, Suzuki	Compatible with other similarly formulated HOAT/OAT coolants. For best results, do not mix with conventional high pH, borate or silicate based coolants.
FORMULATION	PERFORMANCE FEATURE
Ethylene glycol based. Silicate, borate, nitrite & amine free	Aluminum Compatible
PRODUCT COLOR	PRODUCT OPTIONS
Green	Concentrate and 50/50 Pre-diluted
SPECIFICATION/PERFORMANCE LEVEL	
ASTM D3306 JIS K2234	

THE RIGHT **MATCH** FOR YOUR **VEHICLE**



**CONCENTRATE**



**50/50 PRE-DILUTED**

ITEM#	UNIT SIZE	UPC#	SCC#
86-374GROEM	1 U.S. Gallon	0-59934-90441-0	400-59934-90441-8

ITEM#	UNIT SIZE	UPC#	SCC#
86-384GROEMH	1 U.S. Gallon	0-59934-90701-5	400-59934-90701-3
86-389GROEMH	55 U.S. Gallon	0-59934-90755-8	N/A

### ANTIFREEZE/DE-IONIZED WATER DILUTION CHART

PROTECTION AGAINST FREEZING (°F)	-34	-61	-83
VOLUME % ANTIFREEZE	50	60	70
VOLUME % DE-IONIZED WATER	50	40	30
**PROTECTION AGAINST BOIL-OVER (°F)	264	269	276

\*\*WITH A 100 KILOPASCALS (15 PSI) RADIATOR CAP IN GOOD CONDITION

Never use 100% coolant in concentrated form. A 50% dilution (i.e. when mixed with an equal volume of high quality soft, de-ionized or distilled water) is generally recommended for the best balance of protection against freezing, corrosion and summer boil-over. For increased freeze protection in extremely cold areas, a 60% volume concentration can be used. Concentrations of greater than 70% by volume are not recommended.

### TYPICAL PRODUCT PROPERTIES

CHARACTERISTIC	PERFORMANCE	TEST METHOD
pH	7.5–8.6	ASTM D1287
Specific gravity <sup>b</sup>	1.065–1.080	ASTM D1122
Freeze point (°C/°F)	-37/-34	ASTM D1177
Foam volume (ml)	150 max.	ASTM D1881
Foam break time (second)	5 max.	ASTM D1881
Reserve Alkalinity (ml)	1.5 max.	ASTM D1121
Chloride (ppm)	25 max.	ASTM D3634
Color	Green	
Glycol Content (wgt.%)	47 min.	
Inhibitors and Water Content (wgt.%)	53 max.	

Values shown are for 50-50 pre-diluted coolant. <sup>b</sup> Measured at 15.6°C/60°F

# EXTENDED LIFE **BLUE** ANTIFREEZE/COOLANT

IF YOU'RE AN ASIAN VEHICLE OWNER  
(NEWER MODELS), YOU'VE FOUND YOUR  
MATCH WITH OEM EXTENDED LIFE **BLUE**.

Meeting or exceeding these particular vehicle specifications, OEM Extended Life BLUE Antifreeze/Coolant provides excellent high temperature aluminum protection and extended protection against rust, corrosion and pitting caused by cavitation for all coolant system metals. \*When added as an initial fill and properly maintained in accordance with engine manufacturer's maintenance recommendation, OEM BLUE provides superior performance for these newer model Asian cars or light duty trucks requiring a phosphate based OAT engine coolant.



APPLICATION	RECOMMENDED CHANGE INTERVAL
Newer Asian cars and light duty trucks requiring a phosphate based OAT engine coolant.	150,000 miles* or 5 years of service protection
VEHICLE MAKES	COMPATIBILITY
Acura, Honda, Infiniti, Mitsubishi <sup>†</sup> , Nissan, Subaru, Suzuki, Mazda <sup>†</sup>	Compatible with other similarly formulated HOAT/OAT coolants. For best results, do not mix with conventional high pH, borate or silicate based coolants.
FORMULATION	PERFORMANCE FEATURE
Ethylene glycol based. Silicate, borate, nitrite & amine free	Aluminum Compatible
PRODUCT COLOR	PRODUCT OPTIONS
Blue	Concentrate and 50/50 Pre-diluted
SPECIFICATION/PERFORMANCE LEVEL	
ASTM D3306 JIS K2234	

THE RIGHT **MATCH** FOR YOUR **VEHICLE**



### CONCENTRATE



### 50/50 PRE-DILUTED

ITEM#	UNIT SIZE	UPC#	SCC#
86-174BOEM	1 U.S. Gallon	0-59934-90527-1	400-59934-90527-9

ITEM#	UNIT SIZE	UPC#	SCC#
86-184BOEMH	1 U.S. Gallon	0-59934-90610-0	400-59934-90610-8
86-189BOEMH	55 U.S. Gallon	0-59934-90747-3	N/A

### ANTIFREEZE/DE-IONIZED WATER DILUTION CHART

PROTECTION AGAINST FREEZING (°F)	-34	-61	-83
VOLUME % ANTIFREEZE	50	60	70
VOLUME % DE-IONIZED WATER	50	40	30
**PROTECTION AGAINST BOIL-OVER (°F)	264	269	276

\*\*WITH A 100 KILOPASCALS (15 PSI) RADIATOR CAP IN GOOD CONDITION

Never use 100% coolant in concentrated form. A 50% dilution (i.e. when mixed with an equal volume of high quality soft, de-ionized or distilled water) is generally recommended for the best balance of protection against freezing, corrosion and summer boil-over. For increased freeze protection in extremely cold areas, a 60% volume concentration can be used. Concentrations of greater than 70% by volume are not recommended.

### TYPICAL PRODUCT PROPERTIES

CHARACTERISTIC	PERFORMANCE	TEST METHOD
pH	7.5–8.6	ASTM D1287
Specific gravity <sup>b</sup>	1.065–1.080	ASTM D1122
Freeze point (°C/°F)	-37/-34	ASTM D1177
Foam volume (ml)	150 max.	ASTM D1881
Foam break time (second)	5 max.	ASTM D1881
Reserve Alkalinity (ml)	1.5 max.	ASTM D1121
Chloride (ppm)	25 max.	ASTM D3634
Color	Blue	
Glycol Content (wtg.%)	47 min.	
Inhibitors and Water Content (wtg.%)	53 max.	

Values shown are for 50-50 pre-diluted coolant. <sup>b</sup> Measured at 15.6°C/60°F

**Mazda**<sup>†</sup> – applicable on select year light duty truck B-series & Tribute

**Mitsubishi**<sup>†</sup> – applicable on Raider 2006 - 2009

# EXTENDED LIFE **RED** ANTIFREEZE/COOLANT

IF YOU'RE A LEXUS, TOYOTA OR SCION  
OWNER, YOU'VE FOUND YOUR MATCH  
WITH OEM EXTENDED LIFE **RED**.

Meeting or exceeding these particular vehicle specifications, OEM Extended Life RED Antifreeze/Coolant provides excellent high temperature aluminum protection and extended protection against rust, corrosion and pitting caused by cavitation for all coolant system metals. \*When added as an initial fill and properly maintained in accordance with engine manufacturer's maintenance recommendation, OEM RED provides superior performance for these automotive or light duty vehicles requiring an OAT engine coolant.



APPLICATION	RECOMMENDED CHANGE INTERVAL
Asian automotive and light duty vehicles requiring an OAT engine coolant.	150,000 miles* or 5 years of service protection
VEHICLE MAKES	COMPATIBILITY
Lexus, Toyota, Scion	For best results, do not mix with conventional high pH, borate or silicate based coolants.
FORMULATION	PERFORMANCE FEATURE
Ethylene glycol based. Silicate, borate, nitrite and amine free	Aluminum Compatible
PRODUCT COLOR	PRODUCT OPTIONS
Red	Concentrate and 50/50 Pre-diluted
SPECIFICATION/PERFORMANCE LEVEL	
ASTM D3306 JIS K2234	

THE RIGHT **MATCH** FOR YOUR **VEHICLE**



## CONCENTRATE



## 50/50 PRE-DILUTED

ITEM#	UNIT SIZE	UPC#	SCC#
86-374ROEM	1 U.S. Gallon	0-59934-90526-4	400-59934-90526-2

ITEM#	UNIT SIZE	UPC#	SCC#
86-384ROEMT	1 U.S. Gallon	0-59934-90700-8	400-59934-90700-6
86-389ROEMT	55 U.S. Gallon	0-59934-90759-6	N/A

### ANTIFREEZE/DE-IONIZED WATER DILUTION CHART

PROTECTION AGAINST FREEZING (°F)	-34	-61	-83
VOLUME % ANTIFREEZE	50	60	70
VOLUME % DE-IONIZED WATER	50	40	30
**PROTECTION AGAINST BOIL-OVER (°F)	264	269	276

\*\*WITH A 100 KILOPASCALS (15 PSI) RADIATOR CAP IN GOOD CONDITION

Never use 100% coolant in concentrated form. A 50% dilution (i.e. when mixed with an equal volume of high quality soft, de-ionized or distilled water) is generally recommended for the best balance of protection against freezing, corrosion and summer boil-over. For increased freeze protection in extremely cold areas, a 60% volume concentration can be used. Concentrations of greater than 70% by volume are not recommended.

### TYPICAL PRODUCT PROPERTIES

CHARACTERISTIC	PERFORMANCE	TEST METHOD
pH	7.5–8.6	ASTM D1287
Specific gravity <sup>b</sup>	1.065–1.080	ASTM D1122
Freeze point (°C/°F)	-37/-34	ASTM D1177
Foam volume (ml)	150 max.	ASTM D1881
Foam break time (second)	5 max.	ASTM D1881
Reserve Alkalinity (ml)	1.5 max.	ASTM D1121
Chloride (ppm)	25 max.	ASTM D3634
Color	Red	
Glycol Content (wtg.%)	47 min.	
Inhibitors and Water Content (wtg.%)	53 max.	
Silicon (ppm)	< 10	ASTM D6130
Boron (ppm)	< 10	
Nitrite (ppm)	< 10	

Values shown are for 50-50 pre-diluted coolant. <sup>b</sup> Measured at 15.6°C/60°F

# EXTENDED LIFE **PINK** ANTIFREEZE/COOLANT

IF YOU'RE A LEXUS, TOYOTA OR SCION OWNER (NEWER MODELS), YOU'VE FOUND YOUR MATCH WITH OEM EXTENDED LIFE **PINK**.

Meeting or exceeding these particular vehicle specifications, OEM Extended Life PINK Antifreeze/Coolant provides excellent high temperature aluminum protection and extended protection against rust, corrosion and pitting caused by cavitation for all coolant system metals. \*When added as an initial fill and properly maintained in accordance with engine manufacturer's maintenance recommendation, OEM PINK provides superior performance for these newer model (2004-present) automotive or light duty vehicles requiring a phosphate based OAT engine coolant.



APPLICATION	RECOMMENDED CHANGE INTERVAL
Asian automotive and light duty vehicles requiring a phosphate based OAT engine coolant.	150,000 miles* or 5 years of service protection.
VEHICLE MAKES	COMPATIBILITY
Lexus, Toyota Scion	For best results, do not mix with conventional high pH, borate or silicate based coolants.
FORMULATION	PERFORMANCE FEATURE
Ethylene glycol based. Silicate, borate, nitrite and amine free	Aluminum Compatible
PRODUCT COLOR	PRODUCT OPTIONS
Pink	Concentrate and 50/50 Pre-diluted
SPECIFICATION/PERFORMANCE LEVEL	
ASTM D3306 JIS K2234	

THE RIGHT **MATCH** FOR YOUR **VEHICLE**



**CONCENTRATE**



**50/50 PRE-DILUTED**

ITEM#	UNIT SIZE	UPC#	SCC#
86-174POEM	1 U.S. Gallon	0-59934-90439-7	400-59934-90439-5

ITEM#	UNIT SIZE	UPC#	SCC#
86-184POEMT	1 U.S. Gallon	0-59934-90609-4	400-59934-90609-2
86-189POEMT	55 U.S. Gallon	0-59934-90749-7	N/A

### ANTIFREEZE/DE-IONIZED WATER DILUTION CHART

PROTECTION AGAINST FREEZING (°F)	-34	-61	-83
VOLUME % ANTIFREEZE	50	60	70
VOLUME % DE-IONIZED WATER	50	40	30
**PROTECTION AGAINST BOIL-OVER (°F)	264	269	276
**WITH A 100 KILOPASCALS (15 PSI) RADIATOR CAP IN GOOD CONDITION			

Never use 100% coolant in concentrated form. A 50% dilution (i.e. when mixed with an equal volume of high quality soft, de-ionized or distilled water) is generally recommended for the best balance of protection against freezing, corrosion and summer boil-over. For increased freeze protection in extremely cold areas, a 60% volume concentration can be used. Concentrations of greater than 70% by volume are not recommended.

### TYPICAL PRODUCT PROPERTIES

CHARACTERISTIC	PERFORMANCE	TEST METHOD
pH	7.5–8.6	ASTM D1287
Specific gravity <sup>b</sup>	1.065–1.080	ASTM D1122
Freeze point (°C/°F)	-37/-34	ASTM D1177
Foam volume (ml)	150 max.	ASTM D1881
Foam break time (second)	5 max.	ASTM D1881
Reserve Alkalinity (ml)	1.5 max.	ASTM D1121
Chloride (ppm)	25 max.	ASTM D3634
Color	Pink	
Glycol Content (wtg.%)	47 min.	
Inhibitors and Water Content (wtg.%)	53 max.	
Silicon (ppm)	< 10	ASTM D6130
Boron (ppm)	< 10	
Nitrite (ppm)	< 10	

Values shown are for 50-50 pre-diluted coolant. <sup>b</sup> Measured at 15.6°C/60°F

# EXTENDED LIFE **GOLD** ANTIFREEZE/COOLANT

IF YOU'RE A CHRYSLER, DODGE, JEEP, FORD, LINCOLN OR MERCURY OWNER, YOU'VE FOUND YOUR MATCH WITH OEM EXTENDED LIFE **GOLD**.

Meeting or exceeding these particular vehicle specifications, OEM Extended Life GOLD Antifreeze/Coolant provides excellent high temperature aluminum protection and extended protection against rust, corrosion and pitting caused by cavitation for all coolant system metals. \*When added as an initial fill and properly maintained in accordance with engine manufacturer's maintenance recommendation, OEM GOLD provides superior performance for these automotive or light duty vehicles.



APPLICATION	RECOMMENDED CHANGE INTERVAL
North American gasoline and light duty diesel vehicles.	150,000 miles* or 5 years of service protection.
VEHICLE MAKES	COMPATIBILITY
Chrysler, Dodge, Jeep, Ford, Lincoln, Mercury	For best results, do not mix with conventional high pH coolants.
FORMULATION	PERFORMANCE FEATURE
Ethylene glycol based. Low silicate, phosphate and amine free	Aluminum Compatible
PRODUCT COLOR	PRODUCT OPTIONS
Gold	Concentrate and 50/50 Pre-diluted
SPECIFICATION/PERFORMANCE LEVEL	RECOMMENDED FOR USE AND FULLY COMPATIBLE WITH PRODUCT MEETING
ASTM D3306 GM1825M, 1899M Chrysler MS7170, MS9769 SAE J1034, JIS K2234 US Fed A-A-870-A	Ford WSS-M97B51-A1

THE RIGHT **MATCH** FOR YOUR **VEHICLE**



### CONCENTRATE



### 50/50 PRE-DILUTED

ITEM#	UNIT SIZE	UPC#	SCC#
86-734GOEM	1 U.S. Gallon	0-59934-90443-4	400-59934-90443-2

ITEM#	UNIT SIZE	UPC#	SCC#
86-834GOEMFC	1 U.S. Gallon	0-59934-90707-7	400-59934-90707-5
86-839GOEMFC	55 U.S. Gallon	0-59934-90761-9	N/A

### ANTIFREEZE/DE-IONIZED WATER DILUTION CHART

PROTECTION AGAINST FREEZING (°F)	-34	-61	-83
VOLUME % ANTIFREEZE	50	60	70
VOLUME % DE-IONIZED WATER	50	40	30
**PROTECTION AGAINST BOIL-OVER (°F)	264	269	276

\*\*WITH A 100 KILOPASCALS (15 PSI) RADIATOR CAP IN GOOD CONDITION

Never use 100% coolant in concentrated form. A 50% dilution (i.e. when mixed with an equal volume of high quality soft, de-ionized or distilled water) is generally recommended for the best balance of protection against freezing, corrosion and summer boil-over. For increased freeze protection in extremely cold areas, a 60% volume concentration can be used. Concentrations of greater than 70% by volume are not recommended.

### TYPICAL PRODUCT PROPERTIES

CHARACTERISTIC	PERFORMANCE	TEST METHOD
pH	7.5–8.6	ASTM D1287
Specific gravity <sup>b</sup>	1.065–1.080	ASTM D1122
Freeze point (°C/°F)	-37/-34	ASTM D1177
Foam volume (ml)	150 max.	ASTM D1881
Foam break time (second)	5 max.	ASTM D1881
Reserve Alkalinity (ml)	3.0 max.	ASTM D1121
Chloride (ppm)	25 max.	ASTM D3634
Silicon (ppm)	250 max.	ASTM D6130
Color	Gold	
Glycol Content (wtg.%)	47 min.	
Inhibitors and Water Content (wtg.%)	53 max.	

Values shown are for 50-50 pre-diluted coolant. <sup>b</sup> Measured at 15.6°C/60°F

# EXTENDED LIFE **ORANGE** ANTIFREEZE/COOLANT



IF YOU'RE A NORTH AMERICAN VEHICLE OWNER, YOU'VE FOUND YOUR MATCH WITH OEM EXTENDED LIFE **ORANGE**.

Meeting or exceeding these particular vehicle specifications, OEM Extended Life ORANGE Antifreeze/Coolant provides excellent high temperature aluminum protection and extended protection against rust, corrosion and pitting caused by cavitation for all coolant system metals. \*When added as an initial fill and properly maintained in accordance with engine manufacturer's maintenance recommendation, OEM ORANGE provides superior performance for these North American gasoline or light duty diesel vehicles.

APPLICATION	RECOMMENDED CHANGE INTERVAL
North American gasoline and light duty diesel vehicles requiring a pure OAT engine coolant. **Can be used in GM cars and trucks requiring DEX-COOL®.	150,000 miles* or 5 years of service protection.
VEHICLE MAKES	COMPATIBILITY
Chevrolet, Cadillac, Buick, GMC, Hummer, Pontiac, Oldsmobile, Saturn, Saab, Chrysler†, Ford†	Compatible with other similarly formulated OAT coolants. For best results, do not mix with conventional high pH, phosphate, borate or silicate based coolants
FORMULATION	PERFORMANCE FEATURE
Ethylene glycol based. Silicate, borate, nitrate, nitrite, phosphate and amine free	Aluminum Compatible
PRODUCT COLOR	PRODUCT OPTIONS
Orange	Concentrate and 50/50 Pre-diluted
SPECIFICATION/PERFORMANCE LEVEL	RECOMMENDED FOR USE AND FULLY COMPATIBLE WITH PRODUCT MEETING
ASTM D3306, JIS K2234 VW TL 774D	GM 6277M, Chrysler MS-12106 Ford WSS-M97B44-D

THE RIGHT **MATCH** FOR YOUR **VEHICLE**



### CONCENTRATE



### 50/50 PRE-DILUTED

ITEM#	UNIT SIZE	UPC#	SCC#
86-374OEM	1 U.S. Gallon	0-59934-90444-1	400-59934-90444-9

ITEM#	UNIT SIZE	UPC#	SCC#
86-3840OEMGM	1 U.S. Gallon	0-59934-90706-0	400-59934-90706-8
86-3890OEMGM	55 U.S. Gallon	0-59934-90757-2	N/A

### ANTIFREEZE/DE-IONIZED WATER DILUTION CHART

PROTECTION AGAINST FREEZING (°F)	-34	-61	-83
VOLUME % ANTIFREEZE	50	60	70
VOLUME % DE-IONIZED WATER	50	40	30
**PROTECTION AGAINST BOIL-OVER (°F)	264	269	276

\*\*WITH A 100 KILOPASCALS (15 PSI) RADIATOR CAP IN GOOD CONDITION

Never use 100% coolant in concentrated form. A 50% dilution (i.e. when mixed with an equal volume of high quality soft, de-ionized or distilled water) is generally recommended for the best balance of protection against freezing, corrosion and summer boil-over. For increased freeze protection in extremely cold areas, a 60% volume concentration can be used. Concentrations of greater than 70% by volume are not recommended.

### TYPICAL PRODUCT PROPERTIES

CHARACTERISTIC	PERFORMANCE	TEST METHOD
pH	7.5–8.6	ASTM D1287
Specific gravity <sup>b</sup>	1.065–1.080	ASTM D1122
Freeze point (°C/°F)	-37/-34	ASTM D1177
Foam volume (ml)	150 max.	ASTM D1881
Foam break time (second)	5 max.	ASTM D1881
Reserve Alkalinity (ml)	1.5 max.	ASTM D1121
Chloride (ppm)	25 max.	ASTM D3634
Color	Orange	
Glycol Content (wtg.%)	47 min.	
Inhibitors and Water Content (wtg.%)	53 max.	

Values shown are for 50-50 pre-diluted coolant. <sup>b</sup> Measured at 15.6°C/60°F

Chrysler<sup>†</sup> – applicable on 2012 and newer models

Ford<sup>†</sup> – applicable on 2010 and newer models

<sup>††</sup>Dexcool® is a registered trademark of General Motors Corporation.

# EXTENDED LIFE **EURO I** ANTIFREEZE/COOLANT



IF YOU'RE A BMW, JAGUAR, MERCEDES-BENZ, MINI, SMART OR VOLVO OWNER, YOU'VE FOUND YOUR MATCH WITH OEM EXTENDED LIFE **EURO I**.

Meeting or exceeding these particular vehicle specifications, OEM Extended Life EURO I Antifreeze/Coolant provides extended protection against rust, corrosion and pitting caused by cavitation for all coolant system metals, including aluminum. \*When added as an initial fill and properly maintained in accordance with engine manufacturer's maintenance recommendation, OEM EURO I provides superior performance for these and other newer European model gasoline and light duty diesel powered vehicles requiring a nitrite, amine and phosphate (NAP) free, OAT engine coolant.

APPLICATION	RECOMMENDED CHANGE INTERVAL
European gasoline & light duty diesel powered vehicles requiring a nitrite, amine & phosphate (NAP) free, OAT engine coolant.	150,000 miles* or 5 years of service protection.
VEHICLE MAKES	COMPATIBILITY
BMW, Jaguar, Mercedes-Benz, Mini, Smart, Volvo	For best results, do not mix with conventional high pH, phosphate, borate or silicate based coolants.
FORMULATION	PERFORMANCE FEATURE
Low silicate OAT. Nitrite, amine & phosphate (NAP) free. Suitable for gasoline or diesel engines.	Aluminum Compatible
PRODUCT COLOR	PRODUCT OPTIONS
Blue	Concentrate and 50/50 Pre-diluted
SPECIFICATION/PERFORMANCE LEVEL	RECOMMENDED FOR USE AND FULLY COMPATIBLE WITH PRODUCT MEETING
ASTM D3306, D7583 ASTM D6210-10 BS6580	VW TL774G+

THE RIGHT **MATCH** FOR YOUR **VEHICLE**



## CONCENTRATE



## 50/50 PRE-DILUTED

ITEM#	UNIT SIZE	UPC#	SCC#
86-314BOEME	1 U.S. Gallon	0-59934-90528-8	400-59934-90528-6

ITEM#	UNIT SIZE	UPC#	SCC#
86-324BOEME	1 U.S. Gallon	0-59934-90702-2	400-59934-90702-0
86-329BOEME	55 U.S. Gallon	0-59934-90751-0	N/A

### ANTIFREEZE/DE-IONIZED WATER DILUTION CHART

PROTECTION AGAINST FREEZING (°F)	-34	-61	-83
VOLUME % ANTIFREEZE	50	60	70
VOLUME % DE-IONIZED WATER	50	40	30
**PROTECTION AGAINST BOIL-OVER (°F)	264	269	276

\*\*WITH A 100 KILOPASCALS (15 PSI) RADIATOR CAP IN GOOD CONDITION

Never use 100% coolant in concentrated form. A 50% dilution (i.e. when mixed with an equal volume of high quality soft, de-ionized or distilled water) is generally recommended for the best balance of protection against freezing, corrosion and summer boil-over. For increased freeze protection in extremely cold areas, a 60% volume concentration can be used. Concentrations of greater than 70% by volume are not recommended.

### TYPICAL PRODUCT PROPERTIES

CHARACTERISTIC	PERFORMANCE	TEST METHOD
pH	7.8–9.0	ASTM D1287
Specific gravity <sup>b</sup>	1.060–1.080	ASTM D1122
Freeze point (°C/°F)	-37/-34	ASTM D1177
Foam volume (ml)	150 max.	ASTM D1881
Foam break time (second)	5 max.	ASTM D1881
Reserve Alkalinity (ml)	1.5 max.	ASTM D1121
Chloride (ppm)	25 max.	ASTM D3634
Color	Blue	
Glycol Content (wtg.%)	47 min.	
Inhibitors and Water Content (wtg.%)	53 max.	

Values shown are for 50-50 pre-diluted coolant. <sup>b</sup> Measured at 15.6°C/60°F

# EXTENDED LIFE **EURO II** ANTIFREEZE/COOLANT

IF YOU'RE AN AUDI, VW OR PORSCHE OWNER, YOU'VE FOUND YOUR MATCH WITH OEM EXTENDED LIFE **EURO II**.

Meeting or exceeding these particular vehicle specifications, OEM Extended Life EURO II Antifreeze/Coolant provides extended protection against rust, corrosion and pitting caused by cavitation for all coolant system metals, including aluminum. \*When added as an initial fill and properly maintained in accordance with engine manufacturer's maintenance recommendation, OEM EURO II provides superior performance for these gasoline or light duty diesel powered vehicles requiring a nitrite, amine and phosphate (NAP) free, OAT engine coolant.



<b>APPLICATION</b>	<b>RECOMMENDED CHANGE INTERVAL</b>
European gasoline and light duty diesel powered vehicles requiring a nitrite, amine and phosphate (NAP) free, OAT engine coolant.	150,000 miles* or 5 years of service protection
<b>VEHICLE MAKES</b>	<b>COMPATIBILITY</b>
Audi, Volkswagen, Porsche	For best results, do not mix with conventional high pH, phosphate, borate or silicate based coolants.
<b>FORMULATION</b>	<b>PERFORMANCE FEATURE</b>
Ethylene glycol based. Low silicate OAT. Nitrite, amine & phosphate (NAP) free. Suitable for gasoline and diesel engines.	Aluminum Compatible
<b>PRODUCT COLOR</b>	<b>PRODUCT OPTIONS</b>
Pink	Concentrate and 50/50 Pre-diluted
<b>SPECIFICATION/PERFORMANCE LEVEL</b>	
ASTM D3306; BS6580 VW TL774F	

THE RIGHT **MATCH** FOR YOUR **VEHICLE**



### CONCENTRATE



### 50/50 PRE-DILUTED

ITEM#	UNIT SIZE	UPC#	SCC#
86-314POEMVW	1 U.S. Gallon	0-59934-90523-3	400-59934-90523-1

ITEM#	UNIT SIZE	UPC#	SCC#
86-324POEMVW	1 U.S. Gallon	0-59934-90703-9	400-59934-90703-7
86-329POEMVW	55 U.S. Gallon	0-59934-90753-4	N/A

#### ANTIFREEZE/DE-IONIZED WATER DILUTION CHART

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#### TYPICAL PRODUCT PROPERTIES

CHARACTERISTIC	PERFORMANCE	TEST METHOD
pH	7.8–9.0	ASTM D1287
Specific gravity <sup>b</sup>	1.065–1.080	ASTM D1122
Freeze point (°C/°F)	-37/-34	ASTM D1177
Foam volume (ml)	150 max.	ASTM D1881
Foam break time (second)	5 max.	ASTM D1881
Reserve Alkalinity (ml)	1.5 max.	ASTM D1121
Chloride (ppm)	25 max.	ASTM D3634
Color	Pink	
Glycol Content (wtg.%)	47 min.	
Inhibitors and Water Content (wtg.%)	53 max.	

Values shown are for 50-50 pre-diluted coolant. <sup>b</sup> Measured at 15.6°C/60°F

# FIND YOUR MATCH

A FULL SELECTION OF ANTIFREEZE/COOLANT FORMULATIONS



Performance rated at 150,000 miles\*  
or 5 years service protection

Product Size Availability: 1 Gallon jugs

\*When properly diluted and added as an initial fill.

† LEXUS, TOYOTA, SCION – 2004 and newer model vehicles

† CHRYSLER – applicable on 2012 and newer models / FORD – 2010 and newer models

† MAZDA – applicable on select year light duty truck B-Series & Tribute / MITSUBISHI – applicable on Raider 2006-2009



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