

## *Global HD Antifreeze*

**Hartland Global HD Antifreeze** is a premium quality global Hybrid Organic Acid Technology (HOAT) ethylene glycol-based fluid, specially formulated with industry-leading additives to provide optimum performance in gasoline engines, light duty diesel engines, and heavy duty applications. The product can also be used with, and is compatible with, fluids formulated for use in vehicles requiring DEX-COOL®\* (GM 6277M) coolant.

**Hartland Global HD Antifreeze** is a Heavy Duty Extended Life Coolant/Antifreeze and is your cooling system's best defense.

- One fleet. One fluid. User-friendly fluid color and product formulation allows for top-off of any fluid color and fluid consolidation.
- Specifically formulated for use in automobiles and light duty diesel engines.
- Contains a combination of nitrite and molybdate additives to provide superior wet sleeve liner cavitation protection.
- Better heat transfer properties than conventional coolants requiring SCAs.
- No initial SCA precharge required.
- Eliminates the need for SCAs at initial fill and when topping off.
- Provides maximum freeze and boil-over protection.
- Phosphate-free with low silicates.
- Extended life corrosion protection for steel, solder, copper, iron, brass and aluminum.
- High-quality defoamer system, non-harmful to hoses, plastics or gaskets.
- Compatible with all major American brands of conventional and extended life Organic Acid Technology (OAT)-type coolant/antifreeze.

## **Performance Specifications**

AGCO (Massey Ferguson)  
M1130A  
ASTM D3306  
ASTM D6210  
BS 6580:2010  
Buhler Versatile 86050054  
CAT DEAC/NGEC  
CAT EC-1  
CID-A-52624A  
Chrysler MS-7170  
CNH MAT 3620 (87692740)

Cummins CES 14603  
Daimler DBL 7700.00  
Daimler DBL 7700.10  
Daimler DBL 7700.20  
Daimler DBL 7700.30  
DDC 93K217  
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  
GM1899M  
GET-2594F (MI-09500)  
Hino Trucks  
IVECO Standard18-1830  
JCB STD00088  
Jenbacher 1000-201

**Hartland Lubricants & Chemicals | 2455 Commercial Drive | Sparta WI 54656 | 608-487-9770**

John Deere JDM H24A	MTU 5048	TMC RP 303C
John Deere JDM H24B, C	MWM Deutz TR0199-99-1115	TMC RP 329
John Deere JDS-G135	Navistar CEMS B-1 Type I, II, III	TMC RP 338A
Kia MS 591-08	Nissan	Toyota TSK 26016
Komatsu KES 07 892	Perkins (CAT)	Volvo Coolant VCS
Liebherr	SAE J1034, SAE J1941	VW TL774-C
Mack GS17004	TMC RP 302A	Waukesha 4-2429H
MAN 324 Type N, NF, SNF	TMC RP 302B	Wisconsin Motors (Continental)

<b>Product Specifications</b>	<b>ASTM Method</b>	<b>Concentrate</b>	<b>50/50</b>
Glycols Content, mass %	GC	93.5	47
Bittering Agent (yes/no)		Yes	Yes
Water Content, mass%	D1123	2.5	51
Corrosion Inhibitor System, mass%		4	2
Specific Gravity @ 60°F	D1122	1.133	1.08
Flash Point	D97	240°F (116°C)	N/A
pH	D1287	8.8	8.5
RA	D92	11	5.5
Storage Stability		2 years	2 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 %	D1177	-12°C (-24°F)	N/A
40/60 Freeze Point			
Coolant/Antifreeze %	D1177	-34°F (-36°C)	-34°F (-36°C)
50/50 Freeze Point			
Coolant/Antifreeze %	D1177	-62°F (-52°C)	N/A
60/40 Freeze Point			
Coolant/Antifreeze %	D1120	221°F (105°C)	N/A
40/60 Boil Point			
Coolant/Antifreeze %	D1120	226°F (108°C)	226°F (108°C)
50/50 Boil Point			
Coolant/Antifreeze %	D1120	234°F (112°C)	N/A
60/40 Boil Point			
Ash Content	D1119	<5.0	<2.5
Chloride (mg/L)	D3634	<25	<25



# Product Data Sheet

Silicon Content (mg/L)	D6130	<250	<125
Nitrite Content (mg/L)	D5827	1300	650
Nitrate Content (mg/L)	D5827	3500	1750
Molybdate Content (ppm)	D6130	1300	650

The test results listed are typical properties only. Formula and blending changes may result in the slight color and appearance changes.

Hartland Lubricants & Chemicals 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.