



**HEAVY DUTY
EXTENDED LIFE
CONCENTRATE**

PowerGard™ Premium Heavy Duty Extended Life Concentrate Antifreeze

Used as directed, offers superior performance in virtually every light and heavy duty application. The proprietary inhibitor package is low silicate and phosphate and 2-EH free. Can be used as a top-off but to achieve maximum protection a complete flush and fill should be performed. PowerGard Premium Heavy Duty Extended Life Antifreeze provides protection against:

- Freeze-up
- Scale Build-up
- Sludge/Clogging
- Boil Over
- Rust Corrosion
- Wet Sleeve Liner Pitting

ADVANTAGES

- Meets Light Duty ASTM D-3306 and Heavy Duty ASTM D-6210
- One product for Light Duty and Heavy Duty applications
- Perfect choice for mixed fleets
No need to add SCAs
- Safe for use with all engine metals, including aluminum
- Phosphate free and low silicate
- Light Duty - 5 years/150,000 miles
- Heavy Duty - 3 years/300,000 miles
- Compatible with hybrid and OAT coolants - including DEX-COOL® *
- For Safety - All PowerGard Antifreeze contains a bittering agent

SPECIFICATIONS

PowerGard Heavy Duty Extended Life Concentrate is blended with proprietary additives designed to safely meet the performance specifications of (but not limited to):

- ASTM D-3306
- Caterpillar EC-1
- Volvo Trucks
- Komatsu
- Chrysler MS 7170
- Detroit Diesel
- GE Locomotive
- Navistar
- Ford WSS-M97B51
- Cummins Engine
- Freightliner
- TMC RP329
- GM 1825M
- John Deere
- Ford
- ESE-M97B44-D
- GM 1899M
- International
- Case New Holland
- Mercedes
- ASTM D-6210

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



TYPICAL PROPERTIES

DESCRIPTION	TYPICAL VALUES	TEST METHOD
Appearance	Visual	Orange/Red
Specific Gravity at 60/60°F	1.085-1.150	D 1122
Freeze Point, at 50% max	-34°F	D-3321
pH at 50% Solution	8.5-10.0	D-1287
Reserve Alkalinity min.	6	D-1121
Foam Test	150ml/5 sec	D-1881

Available in Gallon Jugs, Drums, Totes and Bulk



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BOIL OVER PROTECTION	% of Cooling System capacity	PROTECTS FROM Freezing Down to	Boiling Up to*
Using a 15 PSI Pressure Cap	40	-10 °F	259 °F
	50	-34 °F	265 °F
	60	-62 °F	270 °F

Cooling System Capacity in Quarts	Quarts of Antifreeze Required for Protection to Temperature (°F) Shown										
Quarts	3	4	5	6	7	8	9	10	11		
8	-7	-34									
9	0	-21	-50								
10	4	-12	-34	-62							
11	8	-6	-23	-47							
12	10	0	-15	-34	-57						
13		3	-9	-25	-45						
14		6	-5	-18	-34	-54					
15		8	0	-12	-26	-43	-62				
16		10	2	-8	-19	-34	-52				
17			5	-4	-14	-27	-42	-58			
18			7	0	-10	-21	-34	-50	-62		
19			9	2	-7	-16	-28	-42	-56		
20			10	4	-3	-12	-22	-34	-48		

For best overall protection, solution strengths within the YELLOW color band are recommended.

50% SOLUTION RECOMMENDED TO OBTAIN MAXIMUM PROTECTION.
DO NOT EXCEED 70% CONCENTRATION OF ANTIFREEZE