

POWERGARD™

PREMIUM COOLANTS

LONG LIFE
CONCENTRATE

PowerGard™ Premium Long 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 Long Life Antifreeze provides protection against:

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

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 SCA's.
- Safe for use with all engine metals, including aluminum.
- Phosphate free and low silicate - suitable for European and Asian models.
- Light Duty - 5 years/150,000 miles • Heavy Duty - 3 years/300,000 miles.
- Compatible with hybrid and OAT coolants - including Dexcool™

SPECIFICATIONS

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

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



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 Alaklinity min.	6	D-1121
Foam Test	150ml/5 sec	D-1881

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										
	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	3	-9	-25	-45						
14	6	6	-5	-18	-34	-54					
15	8	8	0	-12	-26	-43	-62				
16	10	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.

Available in Gallon Jugs, Drums, Totes and Bulk



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