



**LONG LIFE
CONCENTRATE**

PowerGard™ Premium Long Life Orange Concentrate Antifreeze

Powergard Long Life Orange antifreeze/coolant is a universal product that contains no Nitrites, Nitrates, Silicates, Borates or Amines. It is specially formulated with high quality industry-leading additives and is the perfect choice in all vehicles requiring DEX-COOL®* (GM 6277M or GMW 3420) coolant. PowerGard Premium Long Life Orange provides optimum protection against:

- Freeze-up
- Boil Over
- Scale Build-up
- Clogging
- Sludge
- Rust/Corrosion

ADVANTAGES

- Meets or exceeds Light Duty ASTM D-3306 and SAE J1043
- 5 year or 150,000 mile service interval with flush and fill
- With proper mixing will provide protection to -62 °F
- Long term corrosion protection for all system metals
- No silicate dropout or gelling during storage or use
- Full Organic Acid Technology (OAT)
- For safety – All PowerGard Antifreeze contains a bittering agent

SPECIFICATIONS

- ASTM D-3306
- BMW
- Ford WSS-M97B44-D
- Ford WSS M97B44-D2
- GM 6277M
- GMW 3420
- Honda
- Mitsubishi
- SAE J814
- SAE J1034
- SAE J1941
- Subaru
- Toyota
- Volkswagen
- Volvo



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

TYPICAL PROPERTIES

DESCRIPTION	TYPICAL VALUES	TEST METHOD
Appearance	Visual	Orange
Specific Gravity at 60/60°F	1.053-1.083	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 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