



**UNIVERSAL GOLD
CONCENTRATE**

PowerGard™ Premium Gold Concentrate Antifreeze

PowerGard Gold is a true universal antifreeze/coolant that can be used as a top-off or a complete flush and fill in virtually any application. Its HOAT chemistry is designed for both light duty automotive and heavy duty diesel use. PowerGard Gold is a premium ethylene glycol based product and when mixed with water and used as directed offers superior protection against:

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

ADVANTAGES

- Meets Light Duty ASTM D-3306 and Heavy Duty ASTM D-6210
- One universal product for Light Duty and Heavy Duty applications
- Perfect choice for mixed fleets - no need to add SCAs
- Compatible with any color antifreeze
- Phosphate free and low silicate
- Light Duty - 5 years/150,000 miles
- Heavy Duty - 3 years/300,000 miles
- For safety – All PowerGard Antifreeze contains a bittering agent

SPECIFICATIONS

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

- ASTM D-3306
- Chrysler MS 7170
- Ford WSS-M97B51
- Ford WSS-M97B57
- GM 1825M
- GM 1899M
- TMC RP329
- ASTM D-6210
- Caterpillar
- Detroit Diesel
- Cummins Engine
- John Deere
- International
- Case New Holland
- Volvo Trucks
- GE Locomotive
- Freightliner
- Ford ESE-M97B44-D
- Mercedes
- Komatsu
- Navistar



TYPICAL PROPERTIES

DESCRIPTION	TYPICAL VALUES	TEST METHOD
Appearance	Gold/Yellow	Visual
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