

## Ethylene Glycol-Based Engine Antifreeze/Coolant Protection Chart

Cooling System Capacity (Quarts)	PROTECTION CHART										
	Quarts of Concentrated Antifreeze/Coolant Required for Protection to Temperatures (°F) Shown										
	2	3	4	5	6	7	8	9	10	11	12
6	0	-34				A 50/50 mixture (coolant/distilled water) is recommended as it provides freeze protection down to -34 °F (-36.7 °C) and boiling protection up to 265 °F (129 °C).* DO NOT ALLOW the concentration of antifreeze/coolant to fall below 40% or exceed 60% as engine parts could become damaged or not work properly. Shaded blocks show 50% concentration to the next higher full quart.					
7	6	-18	-54								
8	10	-8	-34								
9	14	0	-21	-50							
10	16	4	-12	-34	-62						
11	18	8	-6	-23	-47						
12	19	10	0	-15	-34	-57					
13	21	13	3	-9	-25	-45					
14	22	15	6	-5	-18	-34	-54				
15	23	16	8	0	-12	-26	-43				
16	23	17	10	2	-8	-19	-34	-52			
17	24	18	12	5	-4	-14	-27	-42			
18	24	19	14	7	0	-10	-21	-34	-50		
19	25	20	15	9	2	-7	-16	-28	-42		
20	25	21	16	10	4	-3	-12	-22	-34	-48	
21		22	17	12	6	0	-9	-17	-28	-41	
22		22	18	13	8	2	-6	-14	-23	-34	-47

\* Using the vehicle's specified pressure cap in good condition

**ETHYLENE GLYCOL HYDROMETER SCALE** - For cooling systems larger than shown, use double the quantity of antifreeze/coolant required for a system one-half as large. For systems smaller than shown, use half the quantity of antifreeze/coolant required for a system twice as large.