



Shield Coolant/Antifreeze

Phillips 66® Shield Coolant/Antifreeze provides extended life protection up to 5 years or 150,000 miles (when flushed and filled according to directions) and is compatible with any antifreeze/coolant used in any vehicle. Concentrate and prediluted 50/50 formulations are available.

**Universal Coolant/
Antifreeze FOR
USE IN ALL
VEHICLES**

Concentrate		
Composition	Typical Values	
Antifreeze Glycols	95.0%	
Corrosion Inhibitors	2.2%	
Total Water	2.8%	
Flash Point	250°F	
Weight per gallon at 60°F	9.35-9.45 lbs	
Silicates	<250 ppm	
Properties	Typical Values	ASTM Method
Chloride	25 ppm	D3634
Specific Gravity at 60°F	1.110-1.145	D1122
Ash Content	2.5%	D1119
pH	7.5-11.0	D1287
Reserve Alkalinity	6	D1121
Water mass %	2.8%	D1123
Freeze Point	-34°F	D1177
Boiling Point	265°F	D1120
Foam Test	150 mL vol., max 5 sec. break, max	D1881

50/50 Prediluted		
Composition	Typical Values	
Antifreeze Glycols	48.0%	
Corrosion Inhibitors	1.1%	
Total Water	49.0%	
Flash Point	-	
Weight per gallon at 60°F	8.8 lbs	
Silicates	<250 ppm	
Properties	Typical Values	ASTM Method
Chloride	33 ppm	D3634
Specific Gravity at 60°F	1.065	D1122
Ash Content	2.5%	D1119
pH	7.5-11.0	D1287
Reserve Alkalinity	3	D1121
Water mass %	49.0%	D1123
Freeze Point	-34°F	D1177
Boiling Point	265°F	D1120
Foam Test	150 mL vol., max 5 sec. break, max	D1881

Protection	Freeze-Up Protection	Boil-Over Protection*	Corrosion Protection
Minimum 50% Antifreeze 50% Water	-34°F	265°F	Meets or exceeds ASTM D3306 ASTM D4985
Maximum 70% Antifreeze 30% Water	-84°F	276°F	

Protection	Freeze-Up Protection	Boil-Over Protection*	Corrosion Protection
Minimum 50% Antifreeze 50% Water	-34°F	265°F	Meets or exceeds ASTM D3306 ASTM D4985

*Using a 15lb. pressure cap in good condition

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Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet via <http://www.phillips66.com/EN/products/Pages/MSDS.aspx>.

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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