

PROTECTION you demand. PERFORMANCE you deserve.™

DOMINATOR® Coolant Boost

Enhanced Heat Transfer and Corrosion Protection

Performance enthusiasts are constantly seeking ways to reduce engine operating temperatures, which increases horsepower, peak performance and engine reliability, especially in competition. Many racers use straight water as a coolant, which can lead to damaging corrosion in the radiator, water-pump and other cooling system components.

AMSOIL Dominator Coolant Boost is formulated with proprietary tiered-surfactant technology that provides quick and effective heat transfer inside radiators and cylinder heads, resulting in significantly reduced engine warm-up times, lower engine operating temperatures and increased engine efficiency and horsepower. It also contains a robust mixture of corrosion inhibitors that protect the radiator, heater core, water pump, cylinder heads, engine block and intake manifold from the damaging effects of corrosion.



- **Reduces** engine temps up to 25°F (14°C).
- **Helps** vehicles warm-up an average of 54% faster.

Engine Warm-up Test

Warm-up time is how fast the engine reaches operating temperature. Faster warm-up times enable motorists to defrost the windshield and warm the cabin quickly on cold days. In this test, the ambient temperature was maintained at 30°F (-1°C) to simulate winter conditions. AMSOIL DOMINATOR Coolant Boost was added to a 50/50 antifreeze/water mixture in a V8 test engine and the engine was run at idle from ambient temperature until it reached temperatures of 120°F (49°C) and 180°F (82°C).

Engine Warm-up Time	°F TO 120°F (-1°C TO 49°C)	30°F TO 180°F (-1°C TO 82°C)
Warm-up with only 50/50 Antifreeze/Water Warm-up with AMSOIL DOMINATOR Coolant Boost		

Temperature Reduction Test

Reducing maximum engine temperatures in extreme conditions helps maintain peak power and protect internal components. In this test, controlled dynamometer (dyno) tests were performed on a 350 cubic inch Chevy* engine with an aluminum block and cylinder heads. The engine was operated at 4,500 rpm until coolant temperature stabilized. In benchmark tests, 50/50 antifreeze/water stabilized at 228°F (108.9°C) and straight water stabilized at 220°F (104.4°C).

Temperature Reduction	STABILIZED TEMPERATURE
50/50 Antifreeze/Water with AMSOIL DOMINATOR Coolant Boost	

Aluminum Alloy Corrosion Test

Reducing corrosion helps maximize cooling-system and engine and life. The Cast Aluminum Alloys Corrosion Test (ASTM D4340) measures corrosion protection properties in modern automotive and high-performance engines with aluminum cylinder heads. A cast aluminum puck was heated to 275°F (135°C) at 28 psi and exposed to the mixture of straight water and AMSOIL DOMINATOR Coolant Boost for one week. Weight loss of less than 1.0 mg is required to pass the test.

WEIGHT LOSS (mg)	DOMINATOR COOLANT BOOST (in straight water)	WATER ONLY	
Cast Aluminum		3.97	

Automotive Metals Corrosion Test

In the Corrosion Test in Glassware (ASTM D1384), six metal coupons representing the most common metals in automotive cooling systems were totally immersed in aerated coolant mixtures for 336 hours at 190°F (87.8°C). Each test was performed three times to determine the average weight change for each metal. ASTM sets maximum allowable weight loss limits for each metal.

WEIGHT LOSS (mg)	ASTM ALLOWED	DOMINATOR COOLANT BOOST (in straight water)	
Copper	10 max		25
Solder	30 max		62
Brass	10 max		23
Steel	10 max		18
Cast Iron	10 max		29
Cast Aluminum	30 max		91

Simulated Service Corrosion Test

The Simulated Service Corrosion Test (ASTM D2570) is designed to simulate hard and corrosive water in degraded coolant. Six metal coupons representing the most common metals in automotive cooling systems were exposed to ASTM-prescribed corrosive water for 1,064 hours at 190°F (87.8°C). The coolant was maintained at a temperature and flow rate equivalent to the operating conditions common in most passenger vehicles. Corrosive weight loss suffered during the test determines the additive's corrosion protection properties. ASTM sets maximum allowable weight loss limits for each metal.

WEIGHT LOSS (mg)	ASTM ALLOWED	DOMINATOR COOLANT BOOST (in straight water)	WATER ONLY
Copper	20 max		66
Solder	60 max		120
Brass	20 max		59
Steel	20 max		54
Cast Iron	20 max		117
Cast Aluminum	60 max		89

Applications

Use AMSOIL DOMINATOR® Coolant Boost in racing applications using straight water as coolant and automotive applications using antifreeze mixtures.

Directions: With engine off and cool, make sure cooling system is filled with selected coolant. Shake bottle and pour calculated amount of Coolant Boost into radiator. Start engine, turn heat on high and run for 15 minutes.

Dosage: For straight-water applications, add 2 fl. oz. of Coolant Boost per quart of system capacity. In antifreeze mixtures, add 1 fl. oz. of Coolant Boost per quart of system of capacity.

Frequency: In applications using Coolant Boost with straight water, drain and refill the coolant system and add Coolant Boost once per year.

In applications using Coolant Boost with antifreeze/water mixtures, add Coolant Boost once per year or every 30,000 miles (48,280 km), whichever comes first. Follow coolant manufacturer recommendations for coolant change intervals.

AMSOIL PRODUCT WARRANTY

AMSOIL products are backed by a Limited Liability Warranty. For complete information visit AMSOIL.com/warranty.aspx.

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