

## Antifreeze &amp; Engine Coolants

# AMSOIL DOMINATOR(R) COOLANT BOOST

Product Code: RDCBCN-EA

*Lower engine temps by up to 25 degF, speed up warm-up by 54%, and protect against corrosion for peak performance and reliability.*



## Product Description

AMSOIL DOMINATOR Coolant Boost is a surfactant-based cooling system additive that reduces engine operating temperatures up to 25 degF, accelerates warm-up times by an average of 54%, and delivers proven corrosion protection for both racing and street applications.

Cooling systems are often the most overlooked performance variable in an engine. Water and antifreeze do an adequate job under normal conditions, but they leave measurable performance on the table. Surface tension prevents coolant from making full contact with hot metal surfaces inside the cylinder heads and radiator, which limits heat transfer efficiency. In racing applications where straight water is used for maximum cooling, corrosion becomes a serious threat to aluminum components, water pumps, and radiator cores. Street vehicles face a different version of the same problem: slow warm-up times in cold weather that delay cabin heat, defroster function, and efficient engine operation.

### REDUCES ENGINE OPERATING TEMPERATURES UP TO 25 degF

DOMINATOR Coolant Boost uses a proprietary tiered-surfactant design that sets it apart from single-surfactant competitors. Three distinct surfactants, each engineered to function in a different temperature range, work together to reduce the surface tension of the coolant and increase liquid-to-metal contact throughout the cooling system. In controlled dynamometer testing on a 350 cubic inch Chevy engine with aluminum block and heads running at 4,500 rpm, straight water stabilized at 220 degF. Adding DOMINATOR Coolant Boost dropped that stabilized temperature to 195 degF, a full 25 degF reduction. Even in a 50/50 antifreeze/water mixture, stabilized temps dropped 8 degF, from 228 degF to 220 degF. Lower coolant temperatures mean more consistent power output and reduced thermal stress on gaskets, head bolts, and aluminum castings.

### 54% FASTER ENGINE WARM-UP

The same tiered-surfactant technology that lowers peak temperatures also accelerates warm-up. In testing at 30 degF ambient temperature on a V8 engine idling from cold start, a 50/50 antifreeze/water mixture took 6.3 minutes to reach 120 degF and 11.4 minutes to reach 180 degF. With DOMINATOR Coolant Boost added to the same mixture, those times dropped to 3.2 minutes and 5.3 minutes respectively. That is a 54% improvement in warm-up speed. For trucks, SUVs, and passenger cars in cold climates, this translates directly to faster defroster performance and quicker cabin heat. It also means the engine reaches its efficient operating temperature range sooner, reducing the fuel-rich cold-start period.

### PROVEN CORROSION PROTECTION ACROSS SIX METALS

Racers running straight water as coolant expose their cooling systems to aggressive corrosion, particularly on aluminum cylinder heads and cast iron blocks. DOMINATOR Coolant Boost contains a robust corrosion inhibitor package tested across the six metals most commonly found in automotive cooling systems. In the ASTM D1384 Corrosion Test in Glassware, six metal coupons were

immersed in aerated coolant for 336 hours at 190 degF. Straight water alone caused 91 mg of weight loss on cast aluminum. With DOMINATOR Coolant Boost added to straight water, that number dropped to 0 mg. Solder lost 62 mg in water alone versus 0 mg with Coolant Boost. Every metal tested, including copper, brass, steel, and cast iron, came in well under ASTM maximum allowable limits. In the more demanding ASTM D2570 Simulated Service Corrosion Test, which uses ASTM-prescribed corrosive water over 1,064 hours at 190 degF, results were equally decisive. Cast aluminum lost 89 mg in water alone but 0 mg with Coolant Boost. Solder lost 120 mg in water versus 0 mg with the additive.

#### PASSES CAST ALUMINUM ALLOY TESTING (ASTM D4340)

Modern high-performance engines rely heavily on aluminum alloy cylinder heads and blocks. The ASTM D4340 test heats a cast aluminum puck to 275 degF at 28 psi and exposes it to the coolant mixture for one week. A weight loss under 1.0 mg is required to pass. DOMINATOR Coolant Boost in straight water produced a weight loss of just 0.06 mg, passing the test with a wide margin. Straight water alone produced 3.97 mg of loss, a failure by nearly four times the allowable limit.

#### COMPATIBLE WITH ALL COOLANT TYPES AND WATER SOURCES

DOMINATOR Coolant Boost works in straight-water racing setups and in standard antifreeze/water mixtures used in daily-driven vehicles. It is compatible with distilled, bottled, and tap water. It is radiator-safe and does not affect cooling system hoses, gaskets, or seals.

#### APPLICATION AND SERVICE LIFE

For straight-water applications common in circle track, drag racing, and road course cars, add 2 fl. oz. of Coolant Boost per quart of system capacity. Drain and refill the coolant system and add fresh Coolant Boost once per year. For antifreeze/water mixtures in street vehicles, add 1 fl. oz. per quart of system capacity. Re-treat once per year or every 30,000 miles, whichever comes first, and follow the coolant manufacturer's recommendations for full coolant change intervals. With the engine off and cool, fill the cooling system with your chosen coolant, shake the bottle, pour in the calculated amount, then start the engine with the heater on high and run for 15 minutes.

## Technical Specifications

Test / Property	DOMINATOR Coolant Boost (in straight water)	Water Only	ASTM Allowed
ASTM D4340 - Cast Aluminum Alloy Corrosion (mg loss)	0.06	3.97	1.0 max
ASTM D1384 - Copper (mg loss)	1	25	10 max
ASTM D1384 - Solder (mg loss)	0	62	30 max
ASTM D1384 - Brass (mg loss)	0	23	10 max
ASTM D1384 - Steel (mg loss)	1	18	10 max
ASTM D1384 - Cast Iron (mg loss)	0	29	10 max
ASTM D1384 - Cast Aluminum (mg loss)	0	91	30 max
ASTM D2570 - Copper (mg loss)	3	66	20 max
ASTM D2570 - Solder (mg loss)	0	120	60 max
ASTM D2570 - Brass (mg loss)	2	59	20 max
ASTM D2570 - Steel (mg loss)	0	54	20 max
ASTM D2570 - Cast Iron (mg loss)	0	117	20 max

ASTM D2570 - Cast Aluminum (mg loss)	0	89	60 max
Warm-up: 30 degF to 120 degF (50/50 antifreeze/water)	3.2 min	6.3 min (no additive)	--
Warm-up: 30 degF to 180 degF (50/50 antifreeze/water)	5.3 min	11.4 min (no additive)	--
Temp Reduction: Straight Water at 4,500 rpm	195 degF (25 degF lower)	220 degF	--
Temp Reduction: 50/50 Antifreeze/Water at 4,500 rpm	220 degF (8 degF lower)	228 degF	--

## Frequently Asked Questions

### Q1: What vehicles and equipment can I use AMSOIL DOMINATOR Coolant Boost in?

AMSOIL DOMINATOR Coolant Boost is designed for an extremely wide range of applications, including auto/light truck, motorcycle, ATV, UTV, snowmobile, marine outboard, PWC, heavy-duty on-road, heavy-duty off-road, agriculture, and powersports equipment. It is radiator-safe and compatible with all water sources, including distilled, bottled, and tap water, making it a versatile cooling system additive for virtually any liquid-cooled engine.

### Q2: How much does AMSOIL DOMINATOR Coolant Boost reduce engine temperatures?

AMSOIL DOMINATOR Coolant Boost reduces engine temperatures up to 25 degF (13.8 degC). It achieves this using a proprietary tiered-surfactant technology with three surfactants, each designed to operate in a different temperature range, to increase liquid-to-metal contact. This closer contact with metal parts increases the coolant's efficiency in transferring heat away from hot engine components and out through the radiator and fan.

### Q3: How does AMSOIL DOMINATOR Coolant Boost three-surfactant technology work to lower engine temps?

Unlike other coolant additives, AMSOIL DOMINATOR Coolant Boost uses three surfactants, each engineered to operate in a different temperature range. This tiered-surfactant technology increases liquid-to-metal contact across a broader operating range, improving the coolant's ability to transfer heat away from hot engine parts. The same technology also helps engines warm up an average of 54% faster, improving both cold-weather comfort and hot-weather cooling performance.

### Q4: How does AMSOIL DOMINATOR Coolant Boost compare to other coolant additives for racing?

AMSOIL DOMINATOR Coolant Boost stands apart from other products by using three surfactants operating in different temperature ranges, rather than a single surfactant approach. In industry testing, it limited corrosion on the six metals most commonly found in cooling systems: copper, solder, brass, steel, cast iron, and cast aluminum. It provides excellent protection in racing applications using straight-water coolant, which many tracks require, while still being safe for use with antifreeze mixes in street vehicles.

### Q5: How does AMSOIL DOMINATOR Coolant Boost help with faster engine warm-up in cold weather?

AMSOIL DOMINATOR Coolant Boost's proprietary tiered-surfactant technology helps engines warm up an average of 54% faster. This faster warm-up means the defroster begins working sooner and the cabin warms more quickly in passenger vehicles on cold days. Verified users have confirmed noticeably faster warm-up times and significantly improved cabin heat output during cold seasons.

### Q6: Is AMSOIL DOMINATOR Coolant Boost safe to use with antifreeze and different types of water?

Yes, AMSOIL DOMINATOR Coolant Boost is safe for use with antifreeze mixes, making it suitable for both street and racing applications. It is also compatible with all water sources, including distilled, bottled, and tap water. In industry testing, it limited corrosion on the six metals most commonly found in cooling systems -- copper, solder, brass, steel, cast iron, and cast aluminum -- delivering outstanding corrosion protection for maximum cooling-system performance and life.

## Available Product Codes

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Product Code	Package Size	Unit of Measure
RDCBCN-EA	16 oz. Bottle	Each
RDCBCN-CA	16 oz. Bottle	Case of 6

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