



# Racing Cool

## INCREASE COOLING SYSTEM EFFICIENCY

**Racing Cool is a new coolant additive which prevents engine overheating and increases efficiency of cooling systems.**

Designed and developed for competition engines where maximum output is needed under the most arduous conditions, Racing Cool is equally at home in heavily loaded cars, motorcycles, trucks and tow vehicles

Racing Cool is a powerful surfactant that prevents localised cylinder head boiling and improves heat transfer in all automotive cooling systems.

This cylinder head is where the heat has to be removed most efficiently to prevent overheating and keep the engine running at optimum temperature for maximum performance and efficiency. As the engine warms up, vapour bubbles are formed on the hot metal surface around the combustion chamber. These escape to be circulated round the cooling system. The vapour bubbles increase in size as engine temperature goes up, causing the cooling system efficiency to fall as engine temperature rises.

Under heavy load, when heat from combustion is at its greatest, the coolant boils at localised hot spots, well before overall temperature reaches boiling point. This is characterised by very large vapour bubbles being formed. An example of this is seen most clearly by watching the element of an electric kettle as the water nears boiling point. These large vapour bubbles forming around the hot spots close up the waterways and slow down, and in extreme cases, stop flow of water to the radiator.

Racing Cool breaks down the surface tension of the water preventing large vapour bubbles

from forming. The resultant smaller vapour bubbles are easily carried off by the coolant flow and engine cooling efficiency is maintained.

Controlling cylinder head hot spots also prevents damage and power loss from pre-detonation and often allows greater ignition advance to produce extra power.

Water is particularly good at transferring heat, unlike anti-freeze. Often anti-freeze mixes have to be used to provide corrosion protection for the engine. Racing Cool contains an anti-corrosion package, thus allowing use with water only, further improving the cooling system efficiency. Racing Cool also contains a water pump lubricant and anti-foaming agent to prevent water pump cavitation.

### Benefits

- Stops engine overheating by increasing cooling system efficiency
- Prevents localised cylinder head boiling.
- Prevents premature detonation.
- Contains anticorrosion package.
- Is non-slippery for safe circuit use.

### Dose rate and application.

A 250ml bottle of Racing Cool treats 10 litres of coolant. Mix at 2% with coolant. For maximum cooling effect use with plain water. For engines likely to encounter freezing conditions, use anti-freeze to manufacturers recommendation.

Add by pouring into the radiator or header tank. Caution should be exercised when removing pressurised system caps.

Racing Cool is compatible with all automotive cooling system components, hoses, seals etc. and all proprietary antifreeze and cooling system leak preventers.



Bottled by: Anglo American Oil Company Ltd.  
Sandford, Wareham Dorset BH20 7QE UK  
Tel: +44 (0)1929 551557 Fax: +44 (0)1929 551567  
Mobile: +44 (0)7921 059595