

COOLING SYSTEM MAINTENANCE – WHY IT MATTERS

Inside your car's engine, fuel is constantly burning. A lot of the heat from this combustion goes right out the exhaust system, but some of it soaks into the engine, heating it up. The primary job of the cooling system is to keep the engine from overheating by transferring this heat to the air. By using our ARDINA products, you'll help your entire cooling system to be clean, closed, lubricated and protected against rust and corrosion.

How it works?

The cooling system on liquid-cooled cars circulates a fluid through pipes and passageways in the engine. As this liquid passes through the hot engine it absorbs heat, cooling the engine. After the fluid leaves the engine, it passes through a heat exchanger, or radiator, which transfers the heat from the fluid to the air blowing through the exchanger.

The cooling system also has another important job. The engine in your car runs best at a fairly high temperature. When the engine is cold, components wear out faster, and the engine is less efficient and emits more pollution. So another important job of the cooling system is to allow the engine to heat up as quickly as possible, and then to keep the engine at a constant temperature.

Cars operate in a wide variety of temperatures, from well below freezing to well over 40°C. So whatever fluid is used to cool the engine has to have a very low freezing point, a high boiling point, and it has to have the capacity to hold a lot of heat.

Your engine was designed to operate at a certain temperature. When it operates colder than that, emissions go up, efficiency goes down, and engine wear increases. On the opposite end, cars operating hotter than designed, risk pre-ignition/detonation caused by too-high engine temperature. This can damage various components in your engine. A properly maintained cooling system keeps your engine run efficient.

What you do!



ARDINA Radiator Cleaner effectively cleans the entire cooling system and removes sludge, rust, scale and other deposits and prevents build up of acids and contaminants. This improves the heat transfer from engine to cooling system and prevents overheating.



ARDINA Radiator Sealer & Conditioner permanently and reliably seals and prevents within seconds hair cracks and small leakages in the radiator, the heater radiator, the water pump, the cylinder head gasket and the engine block. It lubricates the pump and protects the entire cooling system against rust and corrosion.

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