

# CLASSIC COOL 180°

## DESCRIPTION

Waterless Engine Coolant for Classic Cars.

## APPLICATION

For use in classic car engines primarily fabricated from cast iron with carbon steel, copper & aluminium components\*.

\*Not suitable for engines using thermo-syphon cooling systems

## TYPICAL CHARACTERISTICS

Physical State : Low Viscosity Synthetic Liquid

Boiling Point : Above 180°C

Freezing Point : Below -40°C

Colour : Green clear

Odour : Almost odourless

Taste : Slightly Sweet, Non-Toxic but not for human consumption

## 4-LIFE DURABILITY

Hawk Waterless Engine Coolants have been proven to last >20 years and a million miles in service without the need for replacement.

## ASTM & ISO STANDARDS

Hawk in association with ASTM committee D15.22 have developed a specific range of standards for waterless engine coolants. All Hawk Coolants are manufactured in accordance with certified ISO procedural standards.

## AVAILABILITY

In 2, 5, 25, 205 and 1000 Litre containers

## HEALTH AND SAFETY

Toxicity : Non-Toxic

Environmental : Bio-degradable

Flammability : Not classed as flammable

Transport : Not classed as hazardous

For more H&S information please refer to Hawk SDS CC180-SDS.



## BENEFITS OF WATERLESS COOLANTS

### Eliminates Overheating

Hawk Waterless Coolants have a boiling point above 180°C and will not vaporise, thus eliminating overheating, boil-over and after-boil.

### Reduces Pressure

Hawk Waterless Coolants generate very low vapour pressures reducing strain on engine hoses and cooling system components.

### Prevents Corrosion

Water promotes corrosion via oxidation and electrolysis - Hawk Waterless Coolants contain no oxygen and are virtually non-conductive effectively preventing corrosion.

### Maximise BHP

Hawk Waterless Coolants eliminate pre-ignition and detonation caused by overheating - thus increasing combustion efficiency and delivering more power.

### Stops Erosion

Hawk Waterless Coolants stop cavitation and eliminate liner and cooling pump erosion.

### Freeze Protection

Hawk Waterless Coolants freeze below -40°C

### Non-Toxic

Hawk Waterless Coolants are proven to be Non-Toxic. Standard anti-freeze is toxic and known to kill pets.

Converting to Hawk Waterless Engine Coolant will eliminate all problems associated with water, improve engine life and prevent overheating, corrosion, erosion, pressurisation and detonation.

Conversion from a water-based coolant to Hawk is a straight forward process that can be completed by anyone with basic engine knowledge, provided the instructions below are adhered to. The time to complete a conversion will depend on experience, engine design, and workshop/tool facilities - we estimate 1 to 2 hours.

If the engine to be converted is currently filled with a water-based coolant then a two-step procedure is required, Steps 1 to 20. However if the engine is 'dry' just fill with the appropriate Hawk coolant and ensure all air has been vented from the cooling system.



1. Do not work on a hot engine, thoroughly read all instructions.
2. Whenever possible verify the total cooling system capacity, to ensure you have sufficient Prep Fluid and/or Hawk coolant to complete the conversion. If it is not possible to confirm the capacity, drain the cooling system and measure how much fluid drains - add 10% for coolant that cannot be drained.
3. Locate cooling system drain-valve or drain-plug and check it operates and/or is not seized etc. - there is no point proceeding if the engine cannot be drained.
4. Run engine up to operating temperature, open (and leave open) all heater-matrix controls.
5. Once up to temperature and pressure inspect cooling system to identify any existing leaks or badly worn components.
6. Where necessary carry out repairs to ensure the coolant is retained inside the cooling system - this step is essential when converting to any coolant. Note: Hawk coolants will exert very little pressure on hoses, radiator seams etc. but if a small leak is evident replace the faulty part prior to conversion.
7. Allow engine and coolant to cool.
8. Carefully remove the radiator or expansion tank cap.
9. Place a suitable tray underneath the drain-valve or drain-plug.
10. Open drain valve or remove drain plug and allow water-based coolant to gravity drain. This might take several minutes.
11. Once the majority of water-based coolant has drained, release the radiator top-hose (clip) and introduce some low pressure compressed air. The Prep Fluid will absorb any remaining water, 90-98% of the water-based coolant can be removed on first-drain.
12. Once all water-based coolant has been drained, verify the volume (in litres or pints) and then dispose of in accordance with the Hawk Safety Data Sheet - available on request.
13. Replace or repair any faulty or leaking cooling system components.
14. Close the drain-valve or replace the drain-plug. Reconnect the top-hose and tighten any clips etc.
15. Fill the cooling system with sufficient Prep Fluid to ensure effective circulation around the complete system.
16. Leave the radiator or expansion tank cap off, as this will enable any trapped air to be vented.
17. Run engine up to operating temperature.
18. As the engine and coolant temperature rises the coolant will expand. Also, as air is vented from the system it may displace coolant from the radiator or expansion tank. Prevent Prep Fluid (or coolant) from dripping onto the exhaust system. All engine coolants can ignite under extreme conditions, especially when in contact with a very hot exhaust.
19. Once all air has been vented and the Prep Fluid has been topped up to the normal level, replace the radiator or expansion tank cap.
20. Inspect cooling system components for leaks. Hawk coolants exert much less pressure than water-based coolants so the tendency is to prevent leaks. If the engine to be converted has a possible leak run the Prep Fluid for a week to verify system integrity.
21. Repeat steps 7 - 12 substituting references of water-based coolant with Prep Fluid. Prep Fluid can be used several times, provided it is stored in a sealed container.
22. Fill the cooling system with the appropriate Hawk coolant;
  - **PowerSports** for Motocross, Trial & Enduro Bikes.
  - **Power Cool 180°** for High Performance Cars
  - **Classic Cool 180°** for Classic Cars
  - **Vintage Cool 180°** for Vintage Cars
  - **Auto Cool 180°** for Modern Production Cars
  - **PowerSports R** for Road & Race Bikes
  - **Heavy Duty** for HGV's, Construction, Agriculture
  - **Marine Cool 180°** for boats and cruisers
  - **Aero Cool 180°** for Rotax aircraft engines
 Fill to the same Level Mark as used for water-based coolants.
23. Repeat steps 14 - 19 substituting references of Prep Fluid with Hawk Coolant.
24. Affix the aluminium backed 'Hawk - Do Not Add Water' red sticker to the radiator/expansion tank cap, plus additional plastic stickers within the engine bay or adjacent bulk-heads.
25. In the event of engine maintenance requiring drainage of the cooling system, ensure the Hawk Coolant is captured and stored in a sealed container.

**If you would like further assistance with these instructions please call us on 01792 572299 or email [info@hawkwaterlesscoolants.com](mailto:info@hawkwaterlesscoolants.com)**