

## Bardahl Indy Coolant Racing

**Bardahl Indy Coolant Racing** is used as a heat transfer fluid in racing engines and is suitable for both gasoline and diesel engines.

### The problem

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The cooling system of most racing engines is a mechanical construction to transfer heat from the walls of the combustion chamber to the liquid in the cooling system and from the liquid to the outside air through the radiator ribs. The water pump ensures the circulation of the coolant (water, antifreeze, etc.).

If this system cannot do its job properly/sufficiently and cannot maintain the correct temperature of the engine, the operation of the engine will be adversely affected in all kinds of ways. If an engine cannot dissipate its heat properly, the oil temperature will rise. Due to poor cooling conditions, the engine block and the cylinder wall may deform. Condensation will also form in the crankcase and sludge will be found under the valve cover at the valve rockers. A refrigerant has the property of acidifying after some time, then corrosion occurs on metal surfaces. These are all things that negatively affect the performance and lifespan of racing engines.

The main cause of poor cooling is the accumulation of sediment. As soon as rust and scale settle around the cylinders, so-called hot spots form on the cylinder walls. Cabbage forms in these hot spots, with the result that the cylinder walls are less and less able to transfer the heat to the water.

Sounds from the water pump, especially squeaks and whining, indicate that the pump is lacking lubrication. This means extraordinary wear and shortening of the life of the pump.

### How it works

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**Bardahl Indy Racing Coolant** protects all types of water-cooled racing engines. It fights, stops and prevents the formation of foam, rust, corrosion and scale.

Bardahl's special high-pressure components adhere to the metal surfaces of the cooling system and provide a protective film. The light cleaning effect of the product will loosen particles from the walls and dissolve them. Undissolved particles are kept in suspension until the cooling system is changed.

**Bardahl Indy Racing Coolant** also lubricates all moving parts of the water pump. It stops the squeaking and grinding and forms a durable oil film on all parts. This way you are assured of a good, safe and silent operation of the water pump.

In the cooling system, **Bardahl Indy Racing Coolant** ensures that the heat from the racing engine can be properly dissipated and that a good and complete combustion can take place in the combustion chamber. As a result, the fuel will also be used as efficiently as possible and all kinds of adverse side effects, such as the formation of condensation and sludge, will be reduced to a minimum.

### Advantages

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- Prevents limestone precipitation in the radiator, channels and hoses.
- Stops rust formation.
- Prevents acidification and the phenomenon of electrolysis.
- Lubricates the water pump, stops squeaking and grinding.

### Specific data

|                           |            |            |
|---------------------------|------------|------------|
| Water content weight %    | max. 53    |            |
| pH                        | 7,0 - 7,6  |            |
| Specific gravity, 20°C    | 1.113 typ. | ASTM D5931 |
| Equilibrium boiling point | >140°C typ | ASTM D1120 |



## PRODUCT INFORMATION

Initial freezing

<-37°C

ASTM D1177

**Article number** 99055

**Contents** 5 liter

**Article number** 99082

**Contents** 25 liter