



**SMART  
LUBES**

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**Product Data Sheet**

## **SMART**

Summer coolant and antifreeze.

### **Description**

Smart lubes Radicoool is a concentrated engine coolant for use in both petrol and diesel engines with aluminium or cast iron engines.

This coolant can be mixed using 33% concentration with purified water to give frost protection to -18 deg C, however it is recommended to use a 50% dilution to provide optimum corrosion protection and freeze protection down to -36 deg C.

At these concentrations this coolant will provides year round protection. To maintain optimum performance this product should be replaced after 1 year

### **Application**

Smart lubes Radicoool is a mixture of monoethylene glycol and selected chemical agents. It contains no nitrites, amines or phosphates. Because it contains no phosphate, the problems of deposits in some modern performance engines are reduced.

Castrol Radicoool provides -

- protection aganist hard water
- effective engine cooling without boiling;
- protection against corrosion of the alloys used in the cooling system of modern vehicles;
- compatibility with conventional seal and hose materials used in engine cooling systems;
- protection against cavitation corrosion;
- efficient lubrication of water pumps
- contains bittering agent

In the majority of cases, coolants are not compatible and should not be mixed with other coolants unless directed by the equipment manufacturer. If using Castrol Radicoool for the first time, ensure that the cooling system has been adequately flushed with clean water before use.

#### Storage

Smart lubes Radicoool has a shelf life of 2 years when stored in air tight containers at a maximum temperature of 30°C. In warm climates containers should not be stored outside in direct sunlight. It can be stored in mild steel lacquer lined or HDPE containers .Galvanised containers and handling equipment should be avoided.

### **Typical Characteristic**

| <b>Name</b>                       | <b>Method</b> | <b>Units</b> | <b>Castrol Radicoool</b> |
|-----------------------------------|---------------|--------------|--------------------------|
| Density @ 20C                     | ASTM D1122    | g/ml         | 1.12                     |
| Appearance                        | Visual        | -            | bright clear fluid       |
| pH, Aqueous Solution (50%)        | ASTM D1287    | pH           | 7.5                      |
| Foam, Tendency of Engine Coolants | ASTM D1881    | ml           | 50 max                   |
| Foam, break time                  | ASTM D1881    | seconds      | 5 max                    |
| Water                             | ASTM D1123    | % wt         | 5 max                    |
| Boiling Point of Engine Coolants  | ASTM D1120    | °C           | 160 min                  |