



## TECHNICAL DATA SHEET

### MC-RIX READY TO USE ANTI FREEZE OAT COOLANT RADIATOR COOLANT

**50:50**  
DO NOT ADD WATER

#### Description

Mc-Rix Ready To Use Anti Freeze Coolant is a superior quality Radiator Coolant. It is Ethylene glycol based and incorporates powerful additive technology to ensure year-round protection against freezing and corrosion. Its hybrid corrosion inhibitor package is based on organic acids and silicates. It does not contain nitrites, amines or phosphates (NAP free).

#### Application

Mc-Rix Ready To Use Anti Freeze Coolant can be directly used in all the cooling Systems for Corrosion Upto 5 Years / 2,50,000 Kms in internal combustion engines, especially MTU (all engines), MB (except EURO 6), MAN systems, Scania , DAF, Volvo, Liebherr, Cummins, CAT & Mercedes Engines.

For best protection against rust and corrosion, It is strongly recommended that the cooling system be drained completely and flushed with clean water before being filled with a fresh charge of Mc-Rix Ready To Use Anti Freeze Coolant.

Warning: Harmful if swallowed. Keep out of the reach of children.

#### Typical Physical Characteristics

| CHARACTERISTICS                     | UNIT              | TESTING VALUE | ASTM METHOD |
|-------------------------------------|-------------------|---------------|-------------|
| Colour - disinfective               |                   | Green         | -           |
| Concentration                       | -                 | 50%           | -           |
| Ash Content, Mass                   | %                 | 2.5           | D-1119      |
| Reserve Alkalinity (min.)           | -                 | 8-9           | D-1121      |
| Specific Gravity @ 15°C             | kg/m <sup>3</sup> | 1060-1072     | D-1122      |
| Reflux Boiling Point (min.)         | °C                | 107.8         | D-1120      |
| Freezing Point (max.)               | °C                | -27           | D-3321      |
| Chlorides                           | ppm               | -             | D-3643      |
| pH Value                            |                   | 7-11          | D-1287      |
| Foaming , Seq. (33 Vol. % in water) | -                 | 5             | D-1881      |

| GLASSWARE TEST RESULT |       |        | ASTM D-1384 |
|-----------------------|-------|--------|-------------|
| METAL TYPE            | SPEC. | ACTUAL | RESULT      |
| Copper                | 10    | -0.8   | PASS        |
| Solder                | 30    | -4.2   | PASS        |
| Brass                 | 10    | 0.2    | PASS        |
| Steel                 | 10    | -0.4   | PASS        |
| Cast Iron             | 10    | -0.5   | PASS        |
| Aluminum              | 30    | 2.15   | PASS        |

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#### Features

- Protect against Rust and Corrosion.
- Improves efficiency and reduces operating costs.
- Protects all cooling system metals including aluminium.
- Suitable for all water cooled petrol and diesel engines.

#### Characteristics

##### PROTECTION AGAINST THE CORROSION OF METALS, ESPECIALLY ALUMINIUM

**Mc-Rix Ready To Use Anti Freeze Coolant** provides an effective solution to the problems of corrosion affecting all materials used in cooling circuits.

**Mc-Rix Ready To Use Anti Freeze Coolant** performs well in the corrosion tests required by the specifications: hot plate and glassware corrosion.

##### HOMOLOGATION PROFILE COMPATIBLE WITH MTU MATERIALS

The additives in ready to use Anti Freeze Coolant gives the coolant fluid:

- A reserve of alkalinity (to neutralise the acids resulting from the combustion gases)
- A resistance to foaming (mainly instability of the foam that might form)
- A compatibility with hard water.

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#### Recommendations

- AFNOR NFR 15-601 TYPE I
- SAE J1034
- BAIC GROUP FOTON Q-FPT 2313005-2013
- CUMMINS (ISBe Motoren b.DAF and Leyland)
- CUMMINS CES 14603, CES 14439
- HYUNDAI MS 591-08
- KOMATSU AF-NAC (ready mix) (07.892 (2009))
- TOYOTA TSK 2601G-8A
- VOLVO 128 6083/002 (=VOLVO TRUCKS, VOLVO CE, from MY 2005, VOLVO PENTA from MY 05/2010)
- ASTM D 4985
- ADE (ATLANTIS DIESEL ENGINES)
- CATERPILLAR MAK A4.05.09.01
- CNH MAT 3624
- DETROIT DIESEL 93K217
- JIS K2234
- LIEBHERR MD 1-36-130

**MC-RIX INDUSTRIES**

(AN ISO 9001:2015 CERTIFIED COMPANY)

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