

## COOLANT / ANTIFREEZE

# XTAR SUPER COOLANT Si-OAT

### DESCRIPTION

A new-generation "Lobrid" monoethylene glycol coolant-antifreeze. It contains an exclusive group of corrosion inhibitors based on a blend of organic acid salts and stabilized silicates that offer long-life protection for all coolant circuit components.

**XTAR SUPER COOLANT Si-OAT** has been developed to meet the specific demands of some car and heavy duty vehicle manufacturers. It is particularly recommended for advanced engine technologies, including EURO VI engines, where the protection of aluminium at high temperatures is critical.

**XTAR SUPER COOLANT Si-OAT** is free of nitrites, amines, phosphates and borates.

#### PRODUCT APPLICATIONS

- As a coolant-antifreeze in internal combustion engines. It provides outstanding protection against, freezing, corrosion and overheating in all modern engines.
- Before adding the coolant, it is recommended to drain and flush the coolant circuit.

#### PRODUCT PERFORMANCE

- High boiling point.
- Excellent freezing protection.
- Effective anti-foaming, properties.
- Outstanding protection of seals and elastomers.
- Provides excellent anti-corrosion protection and prevents sediment formation in the cooling system: engine block, coolant channels, cylinder heads, thermostat, radiator, water pump and other vulnerable cooling system components.
- Offers long life service and low maintenance cost.
- Environmental friendly.
- For coolant preparation use clean and soft water according to the following dilution ratios:

| XTAR Super Coolant Si-OAT<br>concentrate dilution | Protection temperature |
|---|------------------------|
| 33%   | -19°C                  |
| 40%   | -27°C                  |
| 50%   | -37°C                  |

### APPROVALS

- VW TL 774 G (G12++)
- MAN 324 Typ. Si-OAT
- MB-Approval 325.5 (concentrate)
- MB-Approval 325.6 (concentrate)
- MB-Approval 326.5 (diluted)

### SPECIFICATION

- AS 2108-2004
- ASTM D 4985
- ASTM D 3306
- ASTM D 6210
- SAE J1034
- ÖNORM V5123
- CUNA NC 956-16
- JIS K 2234:2006
- SANS 1251:2005
- SH 0521-1999
- BS 6580:2010
- CUMMINS CES 14603
- SCANIA TB 1451
- PORSCHE (*models since 1996*)

The typical values of the characteristics appearing in the table are average values given for guidance purposes. These values may be modified without any prior warning.

## TYPICAL CHARACTERISTICS

| CHARACTERISTIC               | UNITS         | METHOD      | XTAR SUPER COOLANT Si-OAT |                      |
|------------------------------|---------------|-------------|---------------------------|----------------------|
|                              |               |             | 50%                       | CONCENTRATE          |
| Color                        | -             | VISUAL      | MAGENTA                   | MAGENTA              |
| Density 20°C                 | kg/L          | ASTM D 4052 | 1,0758                    | 1,1247               |
| Non-diluted pH               | -             | ASTM D 1287 | 8,25                      | 8,40                 |
| Reserve alkalinity at pH 5.5 | (mL HCl 0,1N) | ASTM D 1121 | 5,4                       | 9,6                  |
| Freezing point               | °C            | ASTM D 3321 | <-37                      | <-37 Diluted 50% v/v |
| Silicon                      | mg/kg         | AAS         | 100                       | 198                  |

The above data represent average values. They cannot be considered as a specified data.

Specified product data are issued in a separated product sheet specification.

These values are subject to change without prior notice.

## STORAGE AND HANDLING

**XTAR SUPER COOLANT Si-OAT** has a shelf life of at least three years when stored in a closed containers at temperatures below 30°C.

Do not use galvanized containers for storage because they may corrode.

## HEALTH & SAFETY AND ENVIRONMENT

Health, safety and environmental information is provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures together with environmental effects and disposal of used products.