

Antifreeze additive Heavy Duty

Heavy Duty Nitrited OAT Additive Package

Superconcentrate S2180 is a water-based, highly concentrated additive package designed to manufacture a top-quality engine coolant concentrate (C2180) by mixing with monoethylene glycol. The additive package is based on the latest inhibitor component technology to produce finished antifreeze which is free of amine, phosphate & silicate and is most suitable product for heavy duty applications. The combination of the long lasting organic additives with carefully selected mineral inhibitors makes this technology extremely effective in heavy duty cast iron engines. When mixed with a suitable glycol and water at the appropriate rate, the produced coolant will provide the following properties:

1. Increased life time, allowing less frequent maintenance, thanks to the corrosion inhibitors which have a very low depletion rate.
2. Thermal characteristics that permit effective engine cooling without boiling.
3. Elimination of deposit problems caused by the use of hard water.
4. Elimination of abrasives solids, which gives a better protection of the joints of the water pump.
5. Improved anticorrosion protection of all metals and especially iron which makes this product extremely useful in heavy duty application.
6. Protection against frost, depending on the concentration chosen.
7. Excellent antifoaming characteristics.
8. Meets most European and International Standards including ASTM D6210.

Typical Properties S2180

Appearance	Slightly opaque liquid	Visual
Colour	Colourless to pale yellow	Visual
Density at 20 °C	1.21 g/cm ³	ASTM D 4052
Freezing Point	-3 °C	ASTM D 1177
Water Content	36 % wt	ASTM D 1123

Packages

Superconcentrate S2180 is available in bulk, drums and IBC's.

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Blending Instructions

The recommended dosage rate for Superconcentrate S2180 with monoethylene glycol is 6% by weight. Superconcentrate S2180 should be introduced gradually into the glycol whilst mixing to build up to an overall level of 6% S2180 / 94% MEG wt/wt.

Superconcentrate S2180 is readily mixable with MEG at ambient temperatures and Solventis can provide guidance as to the blending method most suited to customer's own blending equipment and to finished product testing to ensure blending has been carried out satisfactorily.

Other glycols such as monopropylene glycol can be used for dilution but typical properties will differ to those below based upon monoethylene glycol. Solventis can provide additional data upon request for alternative glycol blends with Superconcentrate S2180.

Storage and Handling

Superconcentrate S2180 has a shelf life of at minimum two years when stored in air-tight containers at a maximum temperature of 30°C. Translucent containers should not be stored outside in direct sunlight, especially in warm climates. Superconcentrate S2180 can be stored in HDPE containers. Use of galvanized steel is not recommended for pipes or any other part of the storage/mixing installation.

As Superconcentrate S2180 is a water based super-concentrate it should be protected from cold conditions and not allowed to freeze. However, were the product to freeze it is recommended to slowly warm the product to allow to thaw. Once thawed the super-concentrate can be used as normal with no loss of quality.

Disposal of used or unused product must be carried out in accordance with local and national law, consult the material safety data sheet for further details.

Toxicity and Safety

As with all chemical products, awareness and control of any potential hazards is of high importance. Please consult the material safety data sheet which is available detailing the hazards associated with this product.

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