



## Description

WT SUPRA is a so-called “water treatment” agent: it is an aqueous concentrate of specific organic corrosion and cavitation inhibitors. Its special formula – containing absolutely no phosphates, nitrites, amines, boron, nitrates or silicates – gives it two important properties: first of all WT SUPRA is non-polluting and, secondly, it is long-lasting.

## Applications

- + As a 5 to 10% vol. solution in water depending on its purpose, WT SUPRA will protect:
  - Cooling circuits** in diesel and gas engines:
    - in combined heat and power plants or electricity power stations requiring no antifreeze protection but needing efficient heat transfer;
    - in ships engines;
    - on the factory test bed during running-in and for the protection of the engine block against corrosion between leaving the factory and entering service.
  - Heat transfer systems** (such as heating plant or secondary circuits in cogeneration units) employing an aqueous fluid.
- + It is preferable to use a soft water even if laboratory tests give satisfactory results with water rated at 20° TH.
- + It is important that the product should be mechanically mixed with the water to ensure a uniform mixture.

## Corrosion Inhibitor

### Specifications

WT SUPRA is approved by:  
MAN, MTU, MWM, Rolls-Royce, Wärtsilä,  
and GE-Jenbacher.

### Advantages

Thanks to its organic technology, WT SUPRA protects circuits much better against cavitation and corrosion than conventional "water treatment" products.

The absence of any inorganic ingredients (such as phosphates, nitrites, etc.) means that no hard deposits are formed, especially around the top of liners, cylinder heads, heat exchanger tubes and electric heaters. As a result:

- + heat transfer is sustained,
- + anti-corrosion and anti-cavitation properties are maintained,
- + there is no risk of pipe erosion due to hard particles in circulation,
- + the circuit remains clean.

The active ingredients in WT SUPRA are non-polluting, and confer the same properties on the circuit fluid so long as it does not contain any toxic substances such as monoethylene glycol (a routine ingredient of ordinary antifreezes). These properties allow it to be used in domestic heating installations.

When no antifreeze protection is needed, filling a heat transfer circuit with WT SUPRA after emptying out a conventional antifreeze gives better performance – thanks to the fluid’s higher thermal capacity – at lower cost.

Optimum protection is obtained when WT SUPRA is diluted in water of hardness below 20° TH, containing no zinc and less than 300 ppm of chlorides and sulphates.

## Typical Characteristics

	Methods	Units
Colour		Colourless
SG at 20°C	ASTM D 1122	1.058
pH	ASTM D 1287	9.4
pH diluted to 5% vol.		8.1

Characteristics of this chart are indicative typical values.

When WT SUPRA is used to flush circuits (see procedure below) that have previously contained a different fluid, its minimum concentration should be 5% vol.

When WT SUPRA is used in the cooling systems of stationary engines, its minimum concentration should be 8.5% vol.

A 10% vol. dilution is recommended when WT SUPRA is used to protect the cooling circuits of engines when these are being run in on the test bed and during periods of storage (2 months).

### Handling, Health & Safety

Lubricants consisting of synthetic oils with specific additives. In normal conditions of use, these lubricants present no particular toxic hazard. All lubricants, of any kind, should always be handled with great care, particularly avoiding any contact with the skin. Prevent any risk of splashing, and keep away from combustible materials. Store under cover and away from any risk of contamination.

A safety data sheet complying with current legislation is available at: [www.quickfds.com](http://www.quickfds.com) and [www.totallubmarine.com](http://www.totallubmarine.com)