

# NALFLEET 2000 25 LTR

Product group: **653**    Product number: **777710**

NALFLEET 2000™ cooling water treatment combines film forming corrosion inhibitors with a scale suppressant in liquid form for ease of application. NALFLEET 2000™ will protect ferrous metals, copper and copper alloys and all other metals including aluminium components. NALFLEET 2000™ is soluble in water in all proportions and does not contain chromates.



## Product information

This product supersedes product no: **777704**

### Features

- Protects all common metals in cooling systems from corrosive attack
- Protects against cavitation erosion
- Compatible with glycols for frost protection
- Simple to control
- Safe to apply and handle

### Benefits

- Minimises sludge and scale deposits
- Approved by major diesel engine manufacturers

## Specification

### General

<b>Invent Hazard Material (IMO/EU) classification</b>	C-7
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### Physical properties

<b>Colour</b>	Deep red
<b>Density [g/ml]</b>	1.095 - 1.125
<b>Form</b>	Liquid
<b>Freeze Thaw Recovery</b>	Complete
<b>Freezing Point [°C]</b>	<-10
<b>Materials compatibility</b>	Stainless Steel, PVC, Polypropylene, Polyethylene, Natural Rubber, Synthetic Rubber, Viton
<b>pH</b>	11.1 - 11.8
<b>Specific Heat</b>	3.9 J/g.K
<b>Viscosity</b>	1.3 cST

## Documents

[SDoC and MD for IHM](#)

## Directions for use

NALFLEET™ 2000 has been designed for use in all common types of engine cooling water systems. Nalfleet 2000 will protect ferrous metals, copper and copper alloys and all other metals including aluminium components. NALFLEET™ 2000 will not affect rubber

gaskets or other non-metallic components within the cooling system.

#### For general guidance where aluminium is present:

No aluminium present - Use Engine Water Treatment 9-108 or Rocor NB Liquid

<10% Aluminium - Use NALFLEET 2000 or Cooltreat AL

>10% Aluminium - Use Cooltreat AL

#### Sampling and Testing

The WSS Motor Ship Test Kit (777066) provides the necessary equipment to carry out the control tests. Obtain a representative sample of the cooling water. Carry out the tests immediately after sampling (following the instructions given in the Test Kit) and log the results in Waterproof. The results should be sent to WSS as stated in the Waterproof instructions. It is important that testing is carried out at least once per week, to ensure levels of treatment are correct.

#### Dosing and Control

Engine cooling systems should be drained, flushed and if necessary, chemically cleaned, to remove old rust and scale deposits before treatment with NALFLEET™ 2000 can begin.

NALFLEET™ 2000 is easy to apply as received, and is fully compatible with water in ethylene glycol solutions. It contains an anti-scalant which helps to keep engine systems clean and free from corrosion and scale formation. NALFLEET™ 2000 maintains design heat transfer efficiencies and extends the life of the engine.

Cases of unusual coolant loss should be checked and remedial action taken. NALFLEET™ 2000 should be introduced during circulation of the cooling water. NALFLEET™ 2000 is best added by means of a feeder installed on a by-pass to the circulating system or in smaller systems, it can be added directly to the header tank. Initial treatment is at a rate of 32 liters of NALFLEET™ 2000 per 1m<sup>3</sup> of coolant to give a control level of 700 to 1500ppm as nitrite (1000 to 2250ppm as sodium nitrite), pH 8.3 to 10.0. Overdosing with NALFLEET™ 2000 is not harmful to the system. Control by a simple test for nitrite and pH. Refer to table below for guide to dosing.

Nitrite ppm	0	250	500	750	1000	1500
Sodium Nitrite ppm	0	375	750	1125	1500	2250
NALFLEET™ 2000 ltr/m <sup>3</sup>	32	24	16	8	0	0

## Related products

#### Is accessory to

Test Kit for Nitrite, Chloride and P Alkalinity.

**777336** AQUAGUARD CW DOSING SYSTEM

#### Consumables

**777066** MOTOR SHIP TEST KIT MO246A.

#### Is frequently bought together with

**571364** VAPTREAT 25LTR

**735977** MAR-71 BIOCIDES 3X5L NOT IN USA&CAN

**698712** OXYGEN SCAVENGER PLUS 25 LTR

**698720** AUTOTREAT - 25 LTR

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