



NITRITE TEST KIT™

DESCRIPTION

NITRITE TEST KIT has been specifically designed to count the nitrite ions concentration in cooling recirculating water systems in marine diesel engines. Its purpose is to test water sample(s), so we can evaluate the results and determine the required use of **DIESEL COOLING WATER TREATMENT (D.C.W.T.) NON CHROMATE** or **D.C.W.T. POWDER**, for the treatment of the water.

TEST KIT CONTENTS

- ◆ One piece of 1ml plastic syringe.
- ◆ One piece of 100ml graduated glass volumetric beaker.
- ◆ One piece of 1 container reaction zone graduated test strips.

PACKAGING

Order Number : 700104

Container : Carton Box

TESTING PROCEDURE

1. Extract water sample from the system in question.
2. With the syringe, draw 1ml of the sample and empty into the graduated beaker.
3. Fill up to 60ml of the cylinder's capacity with fresh water.
4. Remove a test strip and seal back the container immediately.
5. Immerse the test strip in the sample solution for one second such that the reaction zone is properly dampened.
6. Remove the strip out from the solution, shake off any excess liquid observed and leave it to dry for 15 seconds.
7. Compare the dry strips' to the color scale and read off the nitrite concentration in ppm.
8. Evaluate the founded results against the Test Results Evaluation Table and determine the quantity of **D.C.W.T. NON CHROMATE** or **D.C.W.T. POWDER** to be used.

- **IMPORTANT INFORMATION** The contents of **NITRITE TEST KIT** are sufficient for 100 tests.



- **NOTE:** For samples less than 20ppm nitrite concentration, supply the system with the prescribed dosage as in the chart above. For samples greater than 80ppm nitrite concentration, drain some quantity of the old water out and make up for that amount with fresh water in order to bring the system's Nitrite concentration down to satisfactory levels.

INITIAL DOSAGE

D.C.W.T. Non Chromate : 7litres/ton of fresh water

D.C.W.T. Powder : 3kgs/ton of fresh water

TEST RESULTS FOLLOW UP

After the test results are obtained, must be recorded in the **Marichem Cooling Water Treatment Graphic Log Book**. Note that, at the end of every month, the vessel's head engineer must submit these Log Books to the owner company, who in turn should submit Log Books to **MARICHEM MARIGASES Worldwide Services** for further evaluation and technical instructions.



TEST RESULTS

| | | | | | | |
|--|----------|----------|----------|-----------|--------------|------------------------|
| Quantity of Nitrite (NO ₂ ⁻) ppm as appearing in the Nitrite test kit, in a dilution of the cooling water | 1–5 | 5–10 | 10–15 | 15–20 | 20–60 | Over 60 |
| Quantity of Nitrite (NO ₂ ⁻) ppm in the cooling water | 0–300 | 300–600 | 600–900 | 900–1,200 | 1,200–3,600 | Over 3600 |
| D.C.W.T. NON CHROMATE dosage per ton of water | 6 litres | 4 litres | 2 litres | 1 litre | Satisfactory | Partial Drain required |
| D.C.W.T. POWDER dosage per ton of water | 2.5 kgrs | 2 kgrs | 1.5 kgrs | 1 kgr | Satisfactory | Partial Drain required |

 **Read the Material Safety Data Sheet before using this product.**

For detailed information on safety and health, please refer to Material Safety Data Sheet and/or Product Label.

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