

BETAGARD 1500

Corrosion Inhibitor for Closed Cooling System

Description

BETAGARD 1500 is a fully buffered multi metal corrosion inhibitor designed for closed circuit cooling. It will give excellent protection to system metals. It is based on Nitrite, which is the product of choice for closed circuit inhibition. BETAGARD 1500 is stable even at high temperatures, and being easy to handle and measure. Its safe buffering action means that the pH of the system treated will be held in a slightly alkaline range, usually 8.5 – 9.5, and metal passivation and corrosion inhibition will be optimum at the required treatment level. It is suitable for Copper and its alloys.

Properties

Appearance	Slightly yellow granules
NaNO ₂ content, % WT	Min 65
pH, 1% Solution	Min 8.7

Dosage and Feeding

The desired concentration to attain optimum corrosion control is to maintain the Nitrite level in the system water in the range of 850 – 1500 ppm as NO₂. Initial addition of by volume to give Nitrite level in this range is as follows: 1.9kgs – 3.3kgs per 1000 liters water. The residual Nitrite and pH should be checked and logged at the beginning of the treatment, and subsequently should be checked on a regular basis, each one or two months. Apart from a gradual depletion of Nitrite level, losses of Nitrite would normally follow loss of system water, as a guide the following table to makeup losses may be useful:

Table of additions required if test is below range

Residual Nitrite- NO ₂	Kg Chemical /m ³ water
0	3.30
250	2.75
500	2.20
750	1.65
1000	1.10
1250	0.55
1500	0.00

Unusual Nitrite loss from the system other than due to leakage should be referred to our technical representative, because it could be due to the presence of reducing substances, or bacterial action, and will require investigation. Testing for Nitrite is a simple procedure, and information on the test and the necessary test kit is obtainable separately through our office.

Handling and storage

Observe normal precautions for industrial chemicals. Wear goggles when handling. Avoid contact with eyes or skin. If eyes are contacted, flush with plenty of water for about 15 minutes and get medical attention immediately.

Packaging

In plastic bag with net weight 25.

BETAGARD

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