

V-COR™ 221 Corrosion Inhibitor

Product Description

V-COR 221 corrosion inhibitor is a liquid blend of sodium bisulphite and a specially selected catalytic agent, which will not interfere with boiler operations. V-COR 221 used to prevent corrosion in steam generating systems by removing dissolved oxygen from feedwater and boiler water. V-COR 221 reacts with oxygen in water almost instantaneously even at low temperatures. This rapid rate of reaction provides greater protection to the boiler and pre-boiler section, especially where mechanical deaeration is not complete.

Product Benefits

- Complete and rapid neutralisation of dissolved oxygen allowing flexibility on addition point.
- Protection against oxygen corrosion of pre-boiler system and vapour space in the boiler.
- Simple testing and control.

Product Application and Dosage

The recommended dosage is 20 ppm of V-COR 221 per 1 ppm of dissolved oxygen in the feedwater, plus the concentration needed to maintain a small excess residual of sulphite in the boiler.

The recommended feeding method is continuous directly from the product container without dilution. Product may be diluted and fed to the boiler system, however solutions of this product must be covered with a float cover to minimise contact with air in order to avoid loss of product activity. This product may be mixed in diluted form with other boiler water treatment chemicals except phosphates or chelants.

All feeding equipment used to handle this product should be constructed of 316 stainless steel, polyethylene or PVC. Bulk storage should be fibreglass.

Testing and Control

The residual level of V-COR 221 in the boiler water can be measured with a sulphite test. The addition rate of V-COR 221 should be regulated to maintain a residual of 30 to 50 ppm sulphite in the boiler water. Approximately 24 ppm V-COR 221 per 1 ppm of dissolved oxygen in the feedwater will be required for complete neutralisation.

For boilers operating at pressure over 600 psig, it may be necessary to maintain a lower residual. Your Visentia water treatment consultant can provide specific advice on application in your steam system.

Physical Properties

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| Form: | Liquid |
| Odour: | Pungent odour |
| Colour: | Light yellow to light pink |
| pH (25°C): | 2.9-5.2 |
| Melting/Freezing Point: | -9°C (freezing) |
| Boiling Point: | >100°C |
| Solubility (water, 25°C) | Miscible |
| Flammability: | Non-flammable |
| Relative Density: | >1.3 (25°C) |
| Viscosity: | NA |

Regulatory & Handling

MPI Dairy: V-COR 221 is recognised by the Ministry of Primary Industries New Zealand as a Dairy Maintenance Compound; approved for treatment of steam boilers producing culinary steam in dairy factories when used in accordance with recommended operating conditions/guidelines.

MPI Non-Dairy: V-COR 221 is approved by the Ministry of Primary Industries New Zealand as a Non-Dairy Maintenance Compound for treatment of boilers and steam lines in food and beverage processing plants where the steam produced may come into contact with food products and process equipment (C 63).

Refer to the SDS or contact your Visentia water treatment consultant for any additional regulatory and environmental information.

Safety: Visentia maintains an SDS for all its products. Use the health and safety information contained in the SDS to develop appropriate product handling procedures to protect your employees and customers. Our SDS should be read and understood by all of your supervisory personnel and employees before using Visentia products in your facilities.



Packaging

V-COR 221 is available in 20L pails, 200L drums and 1,000L IBCs.

Further Information

If you require any further details on Visentia's products or services, please call your local Visentia water treatment consultant or directly to our Auckland head office on +64 9 216 9824.