

V-COR™ 222 Corrosion Inhibitor

Product Description

V-COR 222 corrosion inhibitor is a liquid treatment formulated to chemically remove oxygen from feedwater, boiler water and condensate in steam generating systems. Additionally, it passivates iron and copper surfaces, rendering them more resistant to corrosion.

V-COR 222 is the ideal product for plants desiring the benefits of an organic reducing agent treatment without the potential for chemical handling problems. These benefits include complete oxygen removal, thus preventing pitting-type corrosion; passivation of metal surfaces through the formation of magnetite and cuprous oxide films; and, the minimisation of iron and copper deposits in the boiler by reducing these metals to their more soluble ferrous and cuprous forms.

V-COR 222 is particularly well-suited for use in food industry plants, including high pressure boilers, where the steam produced contacts food products. The organic reducing agent in V-COR 222 is more thermally stable than sulphite-based products and unlike some volatile treatments, is FDA acceptable.

Product Benefits

V-COR 222 corrosion inhibitor has the following benefits:

- Very low hazard product, which translates to reduced chemical exposure and environmental risk.
- Passivates metallic surfaces as well as chemically removing oxygen.
- Can be fed to a variety of locations including the condensate to give corrosion protection throughout the steam cycle system.

Product Application

V-COR 222 should be fed continuously to the deaerator storage section, the condensate or directly to the boiler. Choice of feed point is dictated by the specific problem to be corrected. Approximately 104 ppm of V-COR 222 per 1 ppm of dissolved oxygen in the feedwater or condensate will be required for complete neutralisation.

Testing and Control

A V-COR 222 product residual of 1.5 – 2.5 ppm is recommended in the feedwater. Residual levels of V-COR

222 can be tested using standard oxygen scavenger test methods such as for DEHA using the appropriate product conversion factors. Your Visentia water treatment consultant can provide specific advice on testing and control for your system.

Physical Properties

Form:	Liquid
Odour:	None
Colour:	Clear to off-white
pH (25°C):	7.0
Melting/Freezing Point:	NA
Boiling Point:	~100°C
Solubility (water, 25°C)	Miscible
Flammability:	Non-flammable
Relative Density:	1.06
Viscosity:	NA

Regulatory & Handling

MPI Dairy: V-COR 222 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 222 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 222 is available in 20L pails and 200L drums.

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.