



Vapro VBCI-849-SF

Silicate Free VBCI Powder

Conforms to MIL-I-22110C

Passed German VIA (Vapour Inhibition Ability) Test TL 8135-002

NATO STOCK NUMBER: PENDING

Protects Heat Recovery Steam Generators (HRSG) and High Pressure Boilers from Corrosion. Eliminates Silica Carryover & Turbine Deposits.

Introduction

Silica carryover causes turbine deposits, silica deposits in turbines can occur even when boiler water carryover is negligible. Steam selectively picks up silica from boiler water; dissolves it and carries it to the turbine where it redeposits. Research shows that the key to eliminate silica carryover is keeping the boiler water free from silica.

Vapro VBCI-849 SF silicate-free VBCI powder was developed to provide corrosion protection of heat recovery steam generators, high pressure boilers and to eliminate turbine deposits.

Product Description

Vapro VBCI-849 SF is a silicate-free Vapor phase Corrosion Inhibitor powder specially developed for corrosion protection of ferrous metals in recessed areas, interior cavities and voids of heat recovery steam generators and high pressure boilers.

It provides an extremely efficient dry method to protect metals within an enclosed space. The VBCI vaporizes and polarizes on all metal surfaces reaching all exposed areas including recessed sections and interior cavities.



Special Features

- Free from contain silicates, phosphates, nitrites, or heavy metals.
- Ease of Application.
- Slight or no surface preparation is required.
- Provides monomolecular VBCI protecting inhibiting layer.
- Provides up to 24 months of continuous protection.
- Vapor phase inhibiting feature protects inaccessible and recessed surfaces.
- Protected products can be shipped to customers without removing powder.
- If the VBCI inhibiting layer is disturbed by moisture or opening the enclosed space, the layer is replenished by continuous VBCI redeposition.
- Prevents further corrosion of pre-coated and painted surfaces.
- When required Vapro VBCI-849 SF powder can be removed by air gun or water rinse if there is no caking of VBCI powder.
- Provides protection to ferrous metals only



Applications

- Corrosion protection for recessed areas, interior cavities and voids of heat recovery steam generators and high pressure boilers.
- Protection of tubular structures, pipes, vessels, and turbines
- Protection of internal surfaces of compressors, turbines, engines, tanks, boilers, and heat exchangers
- Dry lay-up of closed circuit cooling systems
- Equipment protection after hydrostatic testing
- Parts, components, and completed assemblies during shipping and storage protects carbon steel, stainless steel, iron, pig iron, and aluminium.

Mode of Applications

Apply Vapro VBCI-849SF Powder by dusting, fogging, sprinkling or in pouch. After application simply cover, close or seal the interior cavity or void. Fogging is easily achieved with a low pressure air hose and Vapro sandblast cup or by inverting a wet/dry vacuum.

Dosage

300-500 g/m

Method of Removal

When required, Vapro VBCI-849SF powder form can be removed by using a low pressure air gun or by a water rinse. Typically, if applied in aqueous form the product does not require removal.

Typical Properties

Appearance

Off white powder

Solubility in water

Yes

pH at 1% solution

7 ± 1.0

Precaution

Caking of Vapro VBCI-849SF powder may occur when it is exposed to moisture and then dried. The likelihood of this is increased when powder is exposed to high heat and multiple wet/dry cycles.

When powder gets caked, baked, and hardened it requires removal by mechanical means or by using Magna 113 descaling solution or Magna Red.

To avoid caking of powder do not over apply or unevenly disperse Vapro VBCI-849SF powder.

Powder is not soluble in hydrocarbon fluids. Rinse powder from vessels before adding hydrocarbon fluids.

Powder should be removed from area; 4-6 cm each side of weld, before welding, or other high temperature processing

Available Packaging

Vapro VBCI-849 SF is packaged in 25 kilos fibre drum and 180 kilos fibre drum.

Magna

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