**Cortec’s CorShield® VpCI®-649: Environmentally Safe Solution for Heating and Cooling Systems**

CorShield® VpCI®-649 di Cortec: soluzione ecologica per sistemi di riscaldamento e raffreddamento

Cortec’s CorShield® VpCI®-649 is a water-soluble, nitrite-free corrosion inhibitor for open and closed looped cooling systems. This unique powder formulation provides long-term protection of copper, steel, zinc, and aluminum. CorShield® VpCI®-649 combines contact and volatile corrosion inhibitors to provide effective protection for a broad range of applications. This product contains a blend of organic-based scale inhibitors, which prevents scale formation in pipes and towers. CorShield® VpCI®-649 is an effective, environmentally safe replacement for hazardous nitrite, bromate, or chromate-based formulations. This non-toxic formulation does not contain any heavy metals; and the low concentration effectiveness of the product provides economical treatment. The patented Vapor phase Corrosion Inhibiting (VpCI®) technology enables protection in areas that contact inhibitors cannot reach.

CorShield® VpCI®-649 is easy to apply and highly effective for a broad range of applications such as district heating systems, central cooling and heating systems - like airports and other large gathering facilities, truck diesel engines, off road and agricultural machinery, mining, and pulp and paper process equipment. It can also be used for preventing water-bottom corrosion in oil storage tanks, fire-extinguishing systems, hydrostatic testing of pipelines, casings, tanks, valves, and many more (**Fig. 1**). CorShield® VpCI®-649 provides excellent corrosion protection for the lay-up of cooling towers. Being environmentally safe, it helps solve the problem of disposal, particularly for large quantities of water.

This product was developed by Cortec® Laboratories to provide multi-metal corrosion protection using Cortec’s Technology. The VpCI® technology is an innovative, environmentally safe, cost-effective option for corrosion protection. Cortec® products protect with a thin, monomolecular protective barrier. The barrier re-heals and self-replenishes, and can be combined with other functional properties for added protective capabilities. VpCI® forms a physical bond on the metal surface creating a barrier layer against aggressive ions.

CorShield® VpCI®-649 Powder is available in 5 pound (2.3 kg) water-soluble bags, 50 pound (22 kg), and 100 pound (45 kg) packages. It conforms to NACE Standard RP 0487-2000 and is RoHS compliant.

For further information: www.cortecvci.com

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**Cortec’s CorShield® VpCI®-649 offers long-term protection for heating and cooling systems.**

CorShield® VpCI®-649 di Cortec offre protezione a lungo termine per sistemi di riscaldamento e raffreddamento.

Questo prodotto è stato sviluppato da Cortec® Laboratories per offrire una protezione anticrocciosa multimetal utilizzando la tecnologia di Cortec. La tecnologia VpCI® è un’opzione innovativa, ecologica, efficace dal punto di vista dei costi per la protezione dalla corrosione. I prodotti di Cortec proteggono con una barriera protettiva sottile monomolecolare che si auto-ripara e auto-riempie, e che può essere unita ad altre proprietà funzionali per capacità protettive aggiuntive. VpCI® forma un legame fisico con la superficie metallica creando una barriera contro gli ioni aggressivi.

La polvere CorShield® VpCI®-649 è disponibile in sacchetti solubili in acqua da 2,3 kg e in pacchetti da 22 kg e 45 kg. È conforme allo standard NACE RP 0487-2000 e a RoHS.

Per maggiori informazioni: www.cortecvci.com