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Product Bulletin

Corrotek® VCI packaging (Nitrite Free Technology to lead the world to a safer anti- corrosion packaging scenario)

Corrotek® VCI Plastic.

- **Corrotek® VCI** Film actives provide excellent corrosion protection in enclosed spaces over prolonged periods, thus giving excellent cost performance.
- **Corrotek® VCI** Films give excellent barrier properties to moisture transgression and can be tailored in multilayer films.
- **Corrotek® VCI** Film actives are volatile allowing the protective Vapour to reach all enclosed metal surfaces ensures total protection even in inaccessible areas.
- **Corrotek® VCI** Film actives form a mono-molecular layer on the metal surface, does not alter dimensions and does not require removal.

The **Corrotek®** range consists of Vapour phase Corrosion Inhibitors (VCI's or VPCI's). The **Corrotek® Film** is available to protect all metals ranging from ferrous metals to the yellow metals and including aluminium.

Corrotek®VCI Film is a polyolefin film containing volatile corrosion inhibitors with excellent vapour phase & contact corrosion inhibition. The product is based on novel proprietary chemical compounds of low toxicity, low odour and high temperature stability when compared to other commercially available volatile corrosion inhibitor formulations.

Corrotek®VCI Film does not contain nitrites, silicones, phosphates or heavy metals. **Corrotek®VCI Film** provides a user-friendly economical and effective solution to overcoming corrosion problems.

Corrotek®VCI Film actives are released into the sealed package creating an inhibitor-saturated atmosphere providing the necessary protection. Should the package be opened and the actives released, resealing the package will re-establish the protective inhibitors.

Corrotek®VCI Film may be used in the packaging and protection of metal parts susceptible to corrosion. The grades available are for protection of predominantly ferrous metals, multi-metallic protection, and multi-metallic protection with integrated anti-static properties.

Grades:

Corrotek® EM51 Film uses only raw materials which appear under FDA CFR 21 (Food Additives) & is approved by OEM Vehicle manufacturers* as it meets the most stringent performance parameters yet. Major benefits include nitrite & secondary amine free technology complying with TRGS 615 bylaws (a German health & safety protocol,) & excellent performance even at low percentages. Product development on Corrotek® EM51 was driven by the passion to provide the best VCI film to meet stringent Automotive OEM requirements.

Performance Benchmarks for Corrotek® Plastic:

1. Contact Razor blade test. FED-STD-101 Test Method No. 3005
2. German VIA Test (ASTM TL8135-0002)
3. Modified Military VCI spec test
4. US Federal Test Method Standard 101C Method 4031
5. OEM designed modified VIA tests (including the K test, DIS test & others)*
6. VIA (Vapour Inhibiting Action Test, Internationally accepted method FED-STD-101 Test Method No. 4031).

Availability:

In South Africa Corrotek® VCI plastic can be produced to a maximum of 6m widths lay flat sheet or tubing at 2.5 m layflat at different micron thicknesses. We carry a range of stock items ranging from 50 micron tote bags through standard Chep Eurotainer to oversized bags. Print is available at an extra cost.

In Europe Corrotek® VCI plastic can be produced to a maximum of 9m widths lay flat sheet or 4,5 m layflat tubing at different micron thicknesses. We can manufacture sizes from small tote bags through to giant steel mill coil wraps or even high strength/ high stretch for a coil master. Print is included in some cases and can be designed with a clients detail for that added personal touch.

Flexibility:

We can manufacture Corrotek® VCI Films & Bags. Depending on clients requirement dosage is set to a typical value of 5.6% in 100 micron film going up to 7% dosage in 80 micron film. This yields phenomenal performance. This can be customized to clients requirements.