

Anti-Corrosion Packaging Technology (Vapor Corrosion Inhibitor - VCI)

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Description

VCI additives is a blend of bio-base and natural compounds to create a range of offerings to be used in the protection of surfaces against the corrosion and oxidation of ferrous and non-ferrous metals.

VCI is free of amine and nitrite. It is an Anti-Corrosion Additive for Plastics packaging of – multi-metallic, ferrous, non-ferrous, cast iron, copper as well as long and short-term applications. VCI packaging leaves the metal clean, dry and ready for use.

What is Corrosion?

Corrosion is generally defined as the reaction of a material/metal with its surroundings, which causes an oxidation process that affects the functionality and the aesthetic look thus the value of your valued product and can lead to significant costs reduction. Metallic corrosion requires a reaction partner in order to take place. In most cases, this is water in the form of a condensate. VCI is an effective packaging method.

What is VCI?

VCI stands for “Vapor Corrosion Inhibitor” and offers corrosion protection through VCI molecules that evaporate from a carrier material (e.g. film, paper, foam etc.). During packaging, the VCI molecules continuously enter the gas phase and settle on the metal surface. This prevents other molecules such as water and air from reacting with the metal and prevents corrosion.

Main Application:

Plastic films /Paper/corrugated boxes/paper sheets used for packing metal components

Dosage:

Primary Addition for Masterbatch – 10% to 35%

LDR of Masterbatch – 6% to 10%

Protection period varies from 6 months to 5 years depending on the level of the active in the finished product.

