

## PRODUCT DATA SHEET

# VCI+DRY

### Description and Uses

**VCI+DRY** was designed with combining VCI vapor emitter and high adsorption capacity humidity adsorber minerals.

To protect metal product from corrosion VCI packaging materials and desiccants are used for many years. Desiccants such as activated clay packs, silica gels etc. provide dry conditions which slow down corrosion. VCI packaging materials such as VCI PE, VCI paper etc. emits VCI vapors which generate protective molecular barrier film on metal surfaces.

When used common desiccants alone, because of water vapor transmission and holes on packaging materials, in short term adsorption capacity of desiccants can be filled and dry conditions go wrong. When used VCI PE packaging materials alone, because of high water condensation with temperature changing, VCI protective barrier film can be damage.

VCI+DRY has double protection properties that's mean it has very high-water adsorption capacity (up to 3 months) and it can emit VCI vapors (up to 6 months).

Water vapor adsorption capacity of VCI+DRY is too higher than common desiccants. 100g VCI+DRY bag can absorb about 250-300g water vapor. That's mean about 10 times higher adsorption capacity than activated clay. Such as a 100g VCI+DRY bag has higher adsorption capacity than 4 pieces of 8-unit clay pack (about 1150g).

And also, VCI+DRY have long term adsorption properties; its capacity is different from clay packs do not end quickly.

On the other hand, VCI+DRY can not only absorb water but also can emit VCI vapor which generate protective barrier film on metal surfaces. As a result, VCI+DRY can show too high corrosion protection properties than alone used common desiccants and alone used VCI PE products.

For long term corrosion protection, VCI+DRY can be used with a common PE bags (not VCI) instate of VCI PE bag with common desiccants.

### Product Advantages

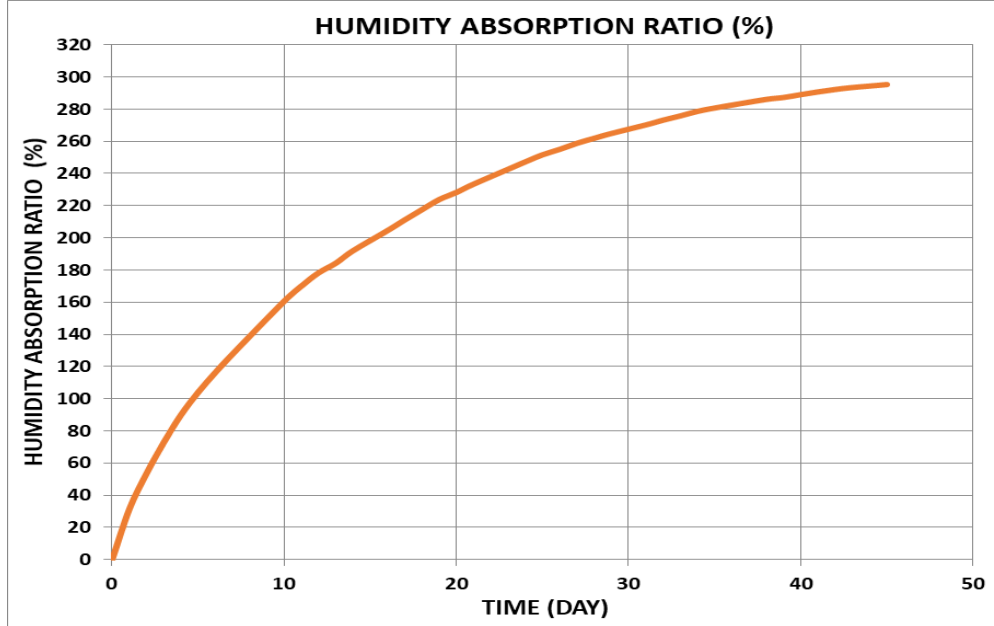
- Double protection with one product.
- High water adsorption capacity.
- Easy transport and stock with small and light pack.
- Easy usage.
- Economical usage.
- Safe, non-toxic and does not contain any harmful chemicals such as nitrites, chromates...



## Method of Application

- Does not required special applications, it can be applied simply by placing proper space in package.
- VCI+DRY bags are producing two types which VCI+DRY-50 and VCI+DRY-100.
- VCI+DRY-100 were designed for 1m<sup>3</sup> volume in a single place. If the volume separated with air tight separators, suggested that VCI+DRY-50 should apply each section.

## Humidity Absorption Performance



These values taken from 90%RH and 35°C test conditions and may change different temperature and relative humidity rate.

## Packing

Our 50g VCI + DRY product is offered for sale in 10 bagged boxes of 200 pieces. Our 100g VCI + DRY product is offered for sale in 10 bagged boxes of 100 pieces. Our 150g VCI + DRY product is offered for sale in 10 bagged boxes of 80 pieces. For special quantities and packaging conditions, please contact our technical service.

## Transport and Handling

VCI+DRY products should be kept always in airtight medium in order to avoid and prevent water vapor adsorption of the product.

### General Notes:

*The information in these publications reflects our own average findings and comments for our products however the use of the product may vary according to the field of application and the buyer is solely responsible for the application, use and reprocessing of the material.*