

# Desiccants



**Suprabha**  
PROTECTIVE PRODUCTS (PVT.) LTD.

Desiccants such as Silica gel are commonly used inside a package to absorb moisture. These are often ineffective, and at times the cause rather than prevention, of corrosion of the packed item. Silica gel has properties by which it attracts moisture. Lower nighttime temperatures cause moisture to condense. During the day, this condensed moisture is released back into the atmosphere within the package due to the higher daytime temperatures thus increasing the level of humidity within the package.

Suprabha approaches this problem by providing two varieties of desiccants, namely the VCI Rustopowder and Dehumidifier. Former provides positive rust prevention by adsorption and the latter by absorption of the moisture and keeps the same under control.

## Rustopowder

On vaporisation VCI molecules migrate and then condensate, forming a monomolecular film on the metal surface. The VCI molecules are attracted towards metal surfaces, they protect every area of metal components including cavities and recessed areas.

## Special Features

- ▶ In case the package is breached and the conditioned atmosphere within the package escapes into the outside atmosphere, the monomolecular VCI layer remains undisturbed due to the continuous vapour action till the powder remains inside the package

- ▶ The invisible VCI layer on items shipped need not be removed, and the parts, components or assembled units are ready for final assembly on delivery, since no degreasing or cleaning is necessary
- ▶ Continuous dry protection; effective up to 24 months
- ▶ VCI does not affect the functioning of most electrical and electronic components
- ▶ VCI powders protect both ferrous & non-ferrous metals
- ▶ Conforms to IS-5730, AME-MIL and JIS specifications
- ▶ General dosage 5 gm/C.ft

## Dehumidifier

It is an activated metal compound, which is an excellent absorber of moisture, and does not get as soaked as to ooze the absorbed moisture when saturated. Its pH of 7 to 7.5 ensures no adverse effect on metals. The right quantity of this desiccant brings down the humidity to safer limits.

## Special Features

- ▶ Absorbs moisture upto 85% of its weight
- ▶ General dosage 20 gm/C.ft
- ▶ In combination with Suprabha VCI 512 Rustopowder, Suprabha DHF 555 Dehumidifier can be used for effective rust prevention for a period of 18-24 months.



Code	Description	Applications	Special Features	Protection Period*
VCI 512 Rustopowder	Water/petrol insoluble powder conforming to IS - 5730	Ferrous and aluminium items	<ul style="list-style-type: none"> <li>Provides dry protection</li> <li>Contact with metal not necessary</li> </ul>	10-12 months
VCI 512S Rustopowder	Water / petrol insoluble powder conforming to IS- 5730	Multi-metal protection	High efficiency VCI powder	12-15 months
VCI 513 Rustopowder	Water / petrol insoluble powder	Multi-metal protection	<ul style="list-style-type: none"> <li>Provides dry protection</li> <li>Contact with metal not necessary</li> </ul>	10-12 months
VCI 514 Rustopowder	Water soluble powder	High efficiency Multi-metal protection	<ul style="list-style-type: none"> <li>Provides dry protection</li> <li>Contact with metal not necessary</li> </ul>	12-15 months
VCI 552 Rustopowder Tablet	VCI 512 in tablet form (Wt 0.5gm)	For use in small packages	Convenient to use	12-15 months
DHF 555 Dehumidifier	Neutral Desiccant	For absorbing entrapped moisture inside the package	<ul style="list-style-type: none"> <li>Absorbs moisture up to 85% its weight</li> <li>Treatment for disposal not necessary</li> </ul>	

- \*1. Protection period can be extended by increasing the dosage  
 2. In case of larger packages, combination of VCI powder with dehumidifier is recommended  
 3. Please consult us in this regard



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