

# Zerust® Vapor Capsules

## Corrosion Inhibiting Vapor Capsules



**Zerust® Vapor Capsules** provide easy to use corrosion protection inside any type of enclosure.

**Zerust® Vapor Capsules** contain proprietary chemical formulations that release an invisible, odorless, non-toxic rust and corrosion inhibiting vapor into the air. The Zerust® vapor molecules will settle on exposed metal surfaces in an enclosure and protect them from rust and corrosion for up to 1-2 years.

### Easy And Targeted Corrosion Protection

**Zerust® Vapor Capsules** are ideal for protecting items inside of enclosures, such as electric control boxes, cabinets, toolboxes, freight containers, aircraft fuselage, etc., that themselves cannot readily be wrapped in protective material.

**Zerust® Vapor Capsules** do not affect the mechanical or electrical properties or functionality of the metal components that they protect.

**Zerust®** Products have been cleared by the US Food & Drug Administration for protecting metals used in food processing and packaging.

**Zerust® Vapor Capsules** can be used in conjunction with other Zerust® products such as Ferrous or Non-ferrous Film, to provide comprehensive corrosion protection.

All **Zerust®** corrosion inhibiting products are environmentally friendly, non-toxic, odorless, and non-allergenic.

**Zerust®** products have no coating of chemicals that flake off, stick to, or otherwise damage the product they are supposed to protect.

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**Easy And Targeted Corrosion Protection**

## About the Product

**Zerust® Vapor Capsules** provide easy-to-use corrosion protection inside any type of enclosure. Zerust® Vapor Capsules are small, self-contained, and easy to install.

## Applications

**Zerust® Vapor Capsules** can be used in any enclosure. Typical applications include: electrical boxes, battery compartments, navigation tools, gun cases, safes, storage cabinets, and more.

**Sizes** **Zerust® Vapor Capsules** come in multiple sizes with varying degrees of protection.

## Specifications

Item	VC1-1 Short	VC1-1	VC2-1	VC2-2	VC6-1	VC6-2
Protective Range ft [m]	1 [0.3]	1 [0.3]	2 [0.6]	2 [0.6]	6 [1.8]	6 [1.8]
Protective Volume ft <sup>3</sup> [m <sup>3</sup> ]	4 [0.1]	4 [0.1]	33 [1]	33 [1]	900 [25]	900 [25]
Protective Lifetime (year)	1	1	1	2	1	2
Units/ Case	50	50	25	10	4	4

## How to use Zerust® Vapor Capsules

To use, simply peel away the unit's adhesive backing and affix to almost any surface inside of an enclosure. These enclosures should limit air exchange with the outside atmosphere. Each Zerust® Vapor Capsule has a specific distance around it in which corrosion protection is provided. This is referred to as the "radius of protection" and is designated in feet by the first number on the vapor capsule label (and in the name). The second number refers to the **protection lifetime**. To ensure you are using the correct vapor capsule for your needs, refer to the above chart, or look on the label of the vapor capsule. Remember to write the date of installation in the prescribed area on the capsule's label.

## Physical Data

<b>Appearance and Odor</b>	Yellow plastic pellets
<b>Boiling Point</b>	N/A
<b>Specific Gravity</b>	About 0.9 in VC1-1 and VC1-1 Short, about 1 in VC2-1, VC2-2, VC6-1 and VC6-2
<b>Shelf Life</b>	Anticipated life of 2 years if stored in original packaging at 85° F or less.
<b>Vapor Pressure (mm Hg)</b>	Below 10 <sup>-8</sup> mm Hg at 25°C. Increased evaporation at temperatures above 50°C.
<b>Vapor Density (air = 1)</b>	>1
<b>Water Solubility</b>	Low. Less than 0.5% by weight of active ingredient
<b>Reactivity in Water</b>	None
<b>Melting Point</b>	Softening and decomposition of internally contained chemical is noticeable above 85°C.
<b>Stability</b>	This Product is stable under normal storage and packing conditions. Avoid contact with flames, strong acids, solvents that swell polyethylene, oxidizers and reducing agents that can react with the internally contained chemical system.
<b>Disposal Method</b>	Incinerate or dispose of in landfill (consult federal, state and local regulations).

## Important information

To maximize the effectiveness of **Zerust® Vapor Capsules**, they should be placed inside of an enclosure that restricts air-flow. Zerust® Vapor Capsules should also be placed as close as possible to the center of the enclosure to ensure full corrosion protection coverage.

Do not repeatedly use at temperatures above 180° F. Do not install where capsule will come in contact with bulk water or be submerged.

Things to remember when using Zerust® products:

- Pack only clean and dry parts.
- Wear gloves to avoid leaving acidic, corrosion causing fingerprints.
- When packing metal parts, the ambient temperature and the part temperature should be the same to prevent condensation from forming inside of the enclosure.
- Make sure the enclosure is tightly sealed or closed.
- Insert additional Zerust® packaging materials with Zerust® Vapor Capsules to ensure maximum corrosion protection throughout. Zerust® products to use in addition to Vapor Capsules (where applicable): Zerust® Bags, Zerust® Film, Zerust® Sheeting, or Zerust® Cardboard.
- Avoid the contact of metal parts with wood, paper or cardboard as these materials contain corrosion causing acids.

We guarantee this product conforms to production specifications and was made in accordance with documented ISO 9001 Quality Procedures. We expressly disclaim responsibility for its use. We make NO WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED, as to the effects of use (including, but not limited to, damage or injury) or the results to be obtained, whether or not used in accordance with the directions. Buyer / user agrees that, if product proves to be defective, Seller's obligation shall be to replace or refund the purchase price of such product at Buyer's option. Seller shall not be liable in tort or contract for any loss or damage, incidental or consequential.

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