

Zerust® Z-PAK® VCI Packets

Zerust® Z-PAK® is an economical, effective, and easy-to-use volatile corrosion inhibitor (VCI) diffuser packet that can be used alone or more typically, with other Zerust® packaging products to provide robust temporary corrosion protection for ferrous metals during shipment, storage, or work-in-progress.

Zerust® Z-PAK® VCI diffuser packets emit a specially formulated VCI chemistry that quickly saturates and lands on metal surfaces located in the enclosure/packaging with the Z-PAK®. This molecular thin, temporary layer of VCI chemistry protects the metal surfaces from corrosion. Since the VCI chemistry is gaseous, hard-to-reach areas of the metal components – such as unobstructed inner surfaces, are also protected from corrosion when a sufficient amount of the VCI chemistry lands on them. Once the metal components leave the enclosure/packaging, away from the Z-PAK®, the VCI chemistry on the metal surfaces volatilizes into the air. The molecular thin layer of VCI chemistry, even when present, will not affect the physical, chemical, or structural properties of the protected metal surfaces. Your customers can work on painting, coating, welding, processing, and/or assembling the metal parts immediately upon receiving them at the facility from the shipment/storage.

Application Example

Z-PAK® VCI Diffusers release vapor corrosion inhibitors (VCI) into an airspace, actively preventing corrosion by forming strong temporary bonds with a metal surface, promoting and maintaining the natural and healthy passive oxide layer on the metal.



Benefits

- Safe and environmentally responsible design
- Minimal user training required
- Easy to apply and use
- Proven technology with 10+ years record
- Effective in mitigating corrosion issues
- Low cost-minimizing impact on your bottom line
- Safe to dispose of in industrial landfills and incineration

Application Type

- Storage
- Shipping
- Work-in-progress
- May be used with Zerust® Packaging



Specifications

Product Information Zerust®/Excor® Z-PAK® is a VCI diffuser powder enclosed in a sachet packet.

Storage Store in a cool, dry place and away from sunlight in original packaging for up to 2 years from the date of shipment.

Protected Metal Types Ferrous metals only*

* Z-PAK® VCI diffuser chemistry is designed to be used for ferrous (Carbon Steel, Silicon Steel, Stainless Steel, Cast Iron) metal surfaces. In certain situations, Z-PAK® may be used for metal components containing limited yellow metal/parts (Aluminum, Zinc (Galvanized Steel), Copper, Brass, Phosphorus Bronze). Check with your Zerust® representative before doing so.

Z-PAK® Dosage Recommendation

Product Name	Protected Metal Types	Volume of protection (Up to)	Radius of protection (Up to)	Duration of protection (Up to)
Z-PAK®-01	Ferrous metals only*	3.5 ft ³ (0.1 m ³)	1 ft (30 cm)	Overseas shipments: 3 months Domestic shipments and/or storage: 6 months
Examples**	Dimensions (L x W x H)	Loosely packed parts – recommended number of Z-PAK®-01	Densely packed parts – recommended number of Z-PAK®-01	
Carton size	400 mm x 300 mm x 250 mm	1 or more	3 or more	
Carton size	500 mm x 350 mm x 300 mm	1 or more	3 or more	
Plastic transfer box	350 mm x 250 mm x 200 mm	1 or more	3 or more	
Steel/ wooden case	600 mm x 600 mm x 700 mm	3 or more	9 or more	

** All non-plastic, non-air-tight containers should be lined with a suitable Zerust® ICT®510-C bag for best result or with LDPE bag to create a suitable enclosure for the Z-PAK® to work.

DECLARATION

This Data sheet and information it contains is considered to be accurate at the date of printing. No representation or warranty, expressed or implied is made as to the accuracy or completeness of the data and information contained in this publication. It is the User's obligation to evaluate and use products safely and within the scope advised in the data sheet and to comply with all applicable laws and regulations.

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Availability

Zerust®/Excor® Z-PAK®-01 are in stock for immediate delivery, sold in cases (1,000 units).

Z-PAK®-01 **Units/Case**
375-F-00100 1,000

Precautions

- Do not remove the Z-PAK® from or open the original packaging until you are ready to use the Z-PAK®.
- Ensure the ferrous metal components needing corrosion protection are clean and dry.
- Avoid leaving Z-PAK® in areas where sharp edges may potentially cut or damage the packet during storage and/or shipment.
- Seal or close the enclosure to restrict airflow. Whenever possible, airtight enclosures are preferred.

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