



# ActivPak® VCI Packets

## Technical Data Sheet

ZERUST®/EXCOR® ActivPak® is a versatile and powerful fast-acting corrosion inhibitor sachet designed to address flash rust and corrosion concerns in demanding scenarios, including overseas shipping and polluted factory environments. Its robust formula offers protection against acid gases and contaminants, making it suitable for safeguarding metals during operation, storage, and in aggressive manufacturing and shipping conditions. They are quick and easy to install. Simply remove the ActivPak® from the packaging, place it in the desired location, and tightly seal the enclosure or packaging to trap the vapors inside.

ActivPak® packets feature cutting-edge Vapor Corrosion Inhibitor (VCI) technology Volatile Flash Corrosion Inhibitor (FCI™) that rapidly shields ferrous and aluminum metals for up to 2 years<sup>†</sup> in a sealed enclosure. This technology effectively combats flash rust and long-term corrosion through progressive VCI chemistry that settles onto exposed metal surfaces inside the packaging or enclosure. Upon removal from the packaging or enclosure, the VCI will dissipate from the metal surfaces, allowing immediate painting, welding, or further processing. It is important to note that ActivPak® should be used in accordance with the recommended guidelines. Prior to implementation, it is advisable to conduct a test.

For over 50 years, ZERUST® VCI technology has proven its performance and safety with thousands of customers worldwide. It is used to protect valuable metal items for manufacturers in industries such as automotive, agricultural, aerospace, and mining. ZERUST®/EXCOR® offers on-site support and service in more than 70 countries via a network of 21 joint venture partnerships. Check with your ZERUST®/EXCOR® representative for a comprehensive corrosion management solution that is most effective for your metal assets.

### Typical Properties

Appearance*	Brown or white non-woven sachet.
Substrates	Ferrous and aluminum protection.
Vapor Inhibiting Ability (VIA)	Pass (NACE TM0208)

\* Please note we have recently changed the inner brown color sachet material for ActivPak® due to material availability. The new sachet material is white and has a slightly different feel. The change of the inner sachet material will NOT affect the products' performance, functionality, or delivery lead times. This is purely a cosmetic change. All product packaging, part numbers, formulations, SDS, and sizes remain unchanged. As we transition into the new sachet material in October 2022, you may be receiving mixed lots (but not mixed in the same box) of products containing both brown and white sachets until the current product inventory depletes.

***This data sheet provides general guidelines for operation, application, and removal. Please contact your ZERUST®/EXCOR® account representative for more specific recommendations on your particular operation and conditions.***

### Operating Summary

- Remove the product from the packaging.
- Take note of the installation date. ActivPak® is rated to provide up to 2 years<sup>†</sup> of protection (See Protection Info on page 2 for specific protection capabilities).
- Place the ActivPak® in the most ideal location possible following the principles below:
  - Center: The ideal location to obtain maximum coverage of protection from the sachet. This position may not be possible if the center is occupied.
  - Corner: In deeper enclosures, two sachets may be required on diagonally opposed corners to fully protect the entire space.
  - Sides: This is practical for most applications and provides the optimum side-mounted protection.
  - Dual Placement: For longer boxes or divided spaces, place a sachet in opposite corners for complete coverage.
- Ensure that the airflow to the enclosure is restricted. It is essential to restrict airflow to the container, as airflow removes the protective vapor barrier from the space faster than it can be released from the ActivPak® sachet.
  - When applying ActivPak® within enclosures where the air is replaced regularly, such as air-cooling systems, it is recommended to place the sachet close to the source of airflow. For added corrosion protection, consider placing an additional ActivPak® near the sensitive metal surface to be protected.
- Upon removal of the ActivPak® or opening the enclosure, the ZERUST® protective molecules will dissipate from the metal surface in a few hours. Corrosion protection of the metal surface will also cease by this time.



product information and photos

## Availability

ZERUST®/EXCOR® ActivPak®-35 VCI Packets are in stock for immediate delivery and sold in cases. Additional sizes, such as T-330, T-33, and T-350, are made-to-order products available upon request, and minimum order quantities apply. Contact your ZERUST®/EXCOR® representative for ordering information.

Part Number	Model	Quantity
375-M-00100	ActivPak®-35	10/Case
375-M-00101	ActivPak®-35	50/Case
375-M-00102	ActivPak®-35	100/Case

## Protection Info<sup>‡</sup>

Model	Product Dimensions** W x H	Normal Environment*		Aggressive Environment*	
		Protection Volume (Up to) <sup>‡</sup>	Protection Duration (Up to) <sup>‡</sup>	Protection Volume (Up to) <sup>‡</sup>	Protection Duration (Up to) <sup>‡</sup>
ActivPak®-T330	3 1/2" x 3"	5 ft <sup>3</sup> (0.15 m <sup>3</sup> ) <sup>‡</sup>	2 years <sup>‡</sup>	2 ft <sup>3</sup> (0.05 m <sup>3</sup> ) <sup>‡</sup>	4 months <sup>‡</sup>
ActivPak®-33	3 1/2" x 3"	16 ft <sup>3</sup> (0.45 m <sup>3</sup> ) <sup>‡</sup>	2 years <sup>‡</sup>	5 ft <sup>3</sup> (0.15 m <sup>3</sup> ) <sup>‡</sup>	4 months <sup>‡</sup>
ActivPak®-T350	3 1/2" x 5"	26 ft <sup>3</sup> (0.75 m <sup>3</sup> ) <sup>‡</sup>	2 years <sup>‡</sup>	7 ft <sup>3</sup> (0.2 m <sup>3</sup> ) <sup>‡</sup>	4 months <sup>‡</sup>
ActivPak®-35	3 1/2" x 5"	35 ft <sup>3</sup> (1 m <sup>3</sup> ) <sup>‡</sup>	2 years <sup>‡</sup>	11 ft <sup>3</sup> (0.3 m <sup>3</sup> ) <sup>‡</sup>	4 months <sup>‡</sup>

**Do not overload the container with more product than recommended.**

\* Normal environment (below 0.2 ppm SO<sub>2</sub>) defined as warehouses, light industrial areas, and shipping and storage in sealed packaging or enclosures. An aggressive environment (at or above 0.2 ppm SO<sub>2</sub>) is defined as areas located in the vicinity of salts and acid gases, such as oceans, petrochemical sites, wastewater treatment, and pulp-paper plants or in enclosures that are not well sealed.

\*\*Dimensions are +/- 10%

## Storage

- Store in a cool, dry place and away from sunlight in the original packaging.
- Optimal storage temperature is < 85°F (29°C) and 50% RH for up to 2 years from the date of shipment.

## Disposal

- The contents of ActivPak® do not meet the criteria for hazardous waste according to 40 CFR 261 (no components listed on F, K, P, or U lists; not ignitable, not corrosive, not reactive, and not toxic).
- ActivPak® may be disposed of in the general solid waste trash. Since ActivPak® generates ammonia, it is best practice to notify your solid waste hauler, especially if a large volume of unused ActivPak® needs to be disposed of.
- Since regulations vary by location, ZERUST® advises our customers to review local regulations to ensure proper disposal.

## Precautions

- Do not install the sachet where it will be submerged in water.
- ActivPak® users with higher sensitivity to smell may detect the presence of an ammonia-like odor when opening the original container of ActivPak®. For such users, it is recommended to open the ActivPak® container in a well-ventilated room before use.
- Avoid placing metal surfaces in direct contact with wood or cardboard (sources of moisture and acid).
- Do not disassemble. Keep away from children. Safe for people. This product does not pose a health hazard to users due to its classification as an article according to UN GHS, US OSHA HazCom, and CA WHMIS regulations. Check REACH SDS for classification in EU.
- Refer to the Safety Data Sheet (SDS) for more safety information.

### ‡ DECLARATION

Corrosion protection claims are based on Northern Technologies International Corporation (NTIC) internal laboratory testing performed under controlled parameters on contaminate-free substrates. Real-world application corrosion protection duration on different substrates will vary and depends on factors such as, but not limited to, the application or use, environmental / storage conditions, surface cleanliness, type of substrates, and coating thickness (where applicable). The use of the term "Up to" in reference to time is defined as any time duration from zero up to a specified time frame, but in no event beyond the specified time frame. The use of the term "for years" is based on NTIC's experience with its products but is in no way guaranteed. The use of the term "Up to" in reference to volume is defined as any volume from zero up to a specified volume but in no event beyond the specified volume of protection. It is the customer's / user's obligation to evaluate product performance, corrosion protection duration, safety, and suitability for intended use within the scope advised in the data sheet and to comply with all applicable laws and regulations. **LIMITED WARRANTY/DISCLAIMER** Warranty is limited to the replacement of a product that fails to meet specifications. For full warranty and disclaimer information, visit [www.zerust.com/warranty](http://www.zerust.com/warranty).

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