

➤ ZERUST® ActivPowder™ - 10F

The ZERUST®/EXCOR® ActivPowder™-10F is a powerful VCI (Volatile Corrosion Inhibitor) powder designed to protect metal surfaces in large voids from corrosion. This self-fogging powder combines VCI protection with a Flash Corrosion Inhibitor (FCI™) to protect against flash rust and provide long-term corrosion protection.

ZERUST®/EXCOR® ActivPowder™-10F is a powerful ferrous corrosion inhibitor powder effective in challenging applications. The exceptionally fast diffusion rate of ZERUST® Activ™ inhibitors enables rapid delivery of protection, even in hard-to-reach spaces of structural voids, tubing, and cavities. This combination diffuses rapidly to protect against flash rust and also to provide long-term corrosion protection with its progressive vapor-transported corrosion inhibitor action.

ZERUST®/EXCOR® ActivPowder™-10F also provides effective surface passivation to protect against corrosion caused by chlorides and acidic surface contaminants. In addition, the powder is fully water soluble and is effective in wet lay-up applications.

ZERUST® ActivPowder for the Military

ZERUST® ActivPowder™-10F conforms to Vapor Inhibitor Ability (VIA) when tested according to NACE Standard TM 0208-2013. Testing by NTIC (Northern Technologies International Corporation) shows it conforms to MIL-PRF-22110, and it exceeds the physical characteristics of commercial product Material Form 3 in Commercial Item Description (CID) A-A-59441/5.

Application Example

ZERUST® ActivPowder™-10F replaces thick-tar-like greases and oil-based coatings in sealed voids such as ship hulls and pipelines. The VCI powder diffuses to reach and protect internal structures, where sweating and condensation of trapped humidity typically cause corrosion issues.

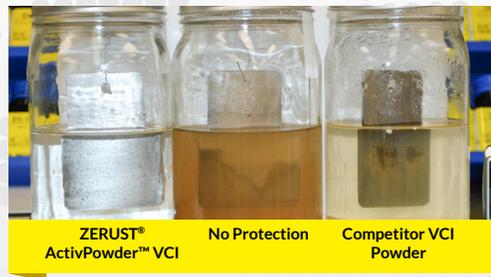


▶ Benefits

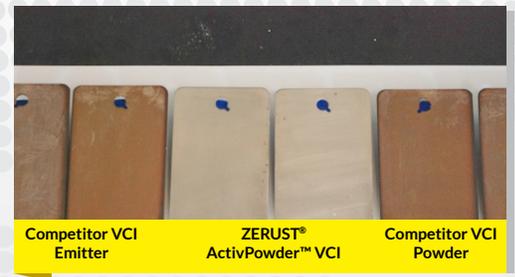
- Fast-acting and effective on hard-to-reach surfaces
- Protects against flash corrosion
- Does not cause hydrogen embrittlement
- Protects against acid gases, salt air, and other challenging contaminants
- Powerful and long-lasting protection

Application Type

- Storage
- Shipping
- During Operation
- May be used with ZERUST® Packaging



Lab Test Results: Seawater Immersion Test with 1010 Steel (3.5% NaCl)



Lab Test Results: SO₂ Acid Gas Test with 1010 Steel (4.5 ppm SO₂)

Product Information

Description ZERUST®/EXCOR® ActivPowder™-10F is a VCI (Vapor Corrosion Inhibitor) and FCI™ (Flash Corrosion Inhibitor) white powder.

Protected Metal Types Ferrous protection. Do not place in direct contact with copper, brass, or zinc. Test before use.

Properties

pH	9 - 10.5
Solubility	> 25 g/L

Storage Store tightly closed in the original container in a cool, dry place and away from sunlight for up to 2 years from the date of shipment. Store at or below 40% RH.

Protection Capabilities*

ZERUST® Product Name	Normal Environment**		Aggressive Environment**	
	Volume of Protection (Up To)	Duration of Protection (Up To)	Volume of Protection (Up To)	Duration of Protection (Up To)
ActivTab™(LS)-25	0.25 ft ³ (0.0071 m ³)	6 months	0.025 ft ³ (0.0007 m ³)	15 days
ActivCapsule™ FAC1-1s	4 ft ³ (0.12 m ³)	1 year	0.35 ft ³ (0.01 m ³)	1 month
ActivPak®(LS)-35	35 ft ³ (1 m ³)	1 year	11 ft ³ (0.3 m ³)	2 months
ActivPak®-35	35 ft ³ (1 m ³)	2 years	11 ft ³ (0.3 m ³)	4 months
ActivPowder™(LS)-10F	1 lb = 280 ft ³ (8 m ³)	For years	1 lb = 90 ft ³ (3 m ³)	1 year
ActivPowder™-10F	1 lb = 280 ft ³ (8 m ³)	For years	1 lb = 90 ft ³ (3 m ³)	1 year

* Protection ratings are based on the highest average tested protection properties and are not guaranteed. Results may vary according to usage environment and metal surface properties such as contaminants.

** Normal environment (below 0.2 ppm SO₂) defined as warehouses, light industrial areas, and shipping and storage in sealed packaging or enclosures. Aggressive environment (at or above 0.2 ppm SO₂) 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.

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.

LIMITED WARRANTY

All statements, technical information and recommendations contained herein are based on validations and tests conducted by Northern Technologies International Corporation/ZERUST® or its partners and are believed to be reliable, but the accuracy or completeness thereof is not guaranteed. We warrant our products will be free from defects when shipped to customer. Our obligation under this warranty shall be limited to replacement of product that proves to be defective. To obtain replacement product under this warranty, the customer must notify Northern Technologies International Corporation/ZERUST® or its partners or agent of the claimed defect within 3 months after shipment of product to customer. Customer shall pay all freight charges for replacement products. We shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products. And any financial claims shall be limited to the value of the products sold.

Before using, user shall determine the suitability of the product for its intended use, and user assumes all risk and liability whatsoever in connection therewith. No representation or recommendation not contained herein shall have any force or effect unless in a written document signed by an officer of the company. The foregoing warranty is exclusive and in lieu of all other warranties, express, implied or statutory, including without limitation any implied warranty of merchantability or of fitness for a particular purpose. In no case shall Northern Technologies International Corporation/ZERUST® be liable for incidental or consequential damages. For full warranty and disclaimer information visit, www.zerust.com/warranty.

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Availability

ZERUST®/EXCOR® ActivPowder™-10F is stocked in cases (packed in 2 mylar bags in each case). Call to confirm. Additional quantities, such as super sacks, are available upon request.

Part Number	Quantity
460-F-00004	30 lb (13.6 kg)*

*+/- 2% net weight

Safety

- Product in the unopened original container prior to use does 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).
- The product is nitrite-free. It is manufactured on shared equipment that processes nitrites and may contain trace amounts.

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