

▶ 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. 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 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 causes corrosion issues.



▶ Benefits

Fast acting and effective on hard to reach surfaces

Protects against flash corrosion

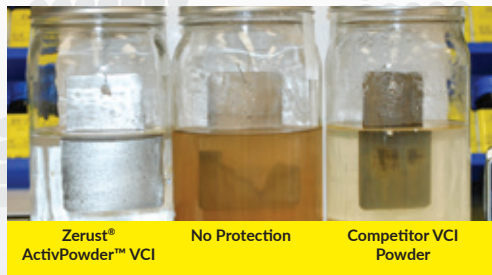
Does not cause hydrogen embrittlement

Protects against acid gases, salt air and other challenging contaminants

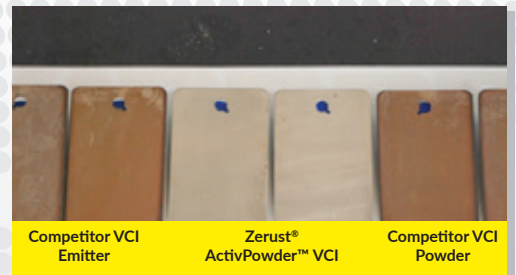
Powerful and long-lasting protection

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)

Specifications

Product Information 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 original container in a cool, dry place and away from sunlight for up to 2 years. Store at or below 40% RH.

Protection Capabilities*

Zerust® Product Name	Normal Environment**		Aggressive Environment**	
	Volume of Protection	Duration of Protection (Up To)	Volume of Protection	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)	3 years	1 lb = 90 ft ³ (3 m ³)	1 year
ActivPowder-10F	1 lb = 280 ft ³ (8 m ³)	3-15 years	1 lb = 90 ft ³ (3 m ³)	1-5 years

* 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) 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.

Warranty and Disclaimer Information: We guarantee our products conform to documented quality specifications. Product information subject to change without notice. We make no warranty of any kind expressed or implied as to the effects of use (including, but not limited to, damage or injury). For full warranty and disclaimer information visit, www.zerust.com/warranty.

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Availability

Zerust/Excor ActivPowder-10F is stocked in pails. Call to confirm. Additional quantities such as super sacks available upon request.

ActivPowder **Quantity**
460-F-00004 30 lb (14 kg)

Safety

- Product in unopened original container prior to use does not meet 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).
- Product is nitrite-free. Manufactured on shared equipment that processes nitrites and may contain trace amounts.