



ActivPowder™ -10F

Technical Data Sheet

ZERUST®/EXCOR® ActivPowder™-10F is a powerful Vapor Corrosion Inhibitor (VCI) powder designed to protect ferrous 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.

The exceptionally fast diffusion rate of Activ™ inhibitors enables rapid delivery of protection, even in hard-to-reach spaces of structural voids, tubing, and cavities. 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. Testing by NTIC (Northern Technologies International Corporation) shows it conforms to MIL-PRF-22110 and exceeds the physical characteristics of commercial product Material Form 3 in Commercial Item Description (CID) A-A-59441/5. ActivPowder™-10F is non-flammable and complies with Global Automotive Declarable Substance, TSCA, ECHA SVHC, RoHS, and REACH requirements.

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	White powder
Substrates	Ferrous protection. Do not place in direct contact with copper, brass, or zinc, and test before use.
pH (1% solution)	8 – 10.5
Solubility	> 25 g/L
Vapor Inhibiting Ability (VIA)	Pass (NACE TM0208)

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

- Water soluble Vapor Corrosion Inhibitor (VCI) and Flash Corrosion Inhibitor (FCI™) powder.
- Typical application temperature: ambient in most operations.
- Deionized or reverse osmosis water is recommended for solution makeup to improve solution life and reduce corrosion potential.
- The powder should be added to any standing water that cannot be removed from the enclosure.

Application Technologies

- Can be used as a self-fogging corrosion inhibitor via sprayer. Contact your ZERUST®/EXCOR® account representative for more specific recommendations.

Availability

ZERUST®/EXCOR® ActivPowder™-10F is sold in cases (packed in 2 mylar bags in each case). Contact your ZERUST®/EXCOR® representative for ordering information.

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

*Product sold in US customary units. Metric units approximate.
** +/- 2% net weight



product information and photos

Protection Info[‡]

Model	Normal Environment*		Aggressive Environment*	
	Protection Volume (Up to) [‡]	Protection Duration (Up to) [‡]	Protection Volume (Up to) [‡]	Protection Duration (Up to) [‡]
ActivPowder™-10F	1 lb. = 280 ft ³ (8 m ³) [‡]	For years [‡]	1 lb. = 90 ft ³ (3 m ³) [‡]	1 year [‡]

* 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.

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.
- Reseal or close the case or sack after each use.

Disposal

- Check with local, state, and national regulatory agencies on permit requirements before disposal.

Precautions

- Safe to use and handle. Product is not hazardous for people or the environment according to EU (CLP) or OSHA HazCom 2012 (US GHS).
- The product is nitrite-free. However, it's manufactured on shared equipment that processes nitrites and may contain trace amounts.
- Avoid contact with eyes and skin.
- Provide adequate ventilation and minimize exposure to dust and vapors.
- Do not breathe dust or vapors.
- Wear personal protective equipment as stipulated in the Safety Data Sheet (SDS).
- Refer to 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.

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