

Zerust® ActivPowder™ -10F

FAST-ACTING CORROSION PROTECTION TECHNOLOGY

PRODUCT INFORMATION

Fast-Acting and Long-Term Ferrous Corrosion Protection

Zerust® ActivPowder™-10F is a Vapor Corrosion Inhibitor (VCI) powder designed to protect metal surfaces in large voids from corrosion. It offers VCI protection, combined with a new self-fogging Flash Corrosion Inhibitor (FCI™) technology, specialized to protect metals in enclosed spaces. 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.

The exceptionally fast diffusion rate of ActivPowder-10F inhibitors enables rapid delivery of protection to metal surfaces, even in hard to reach spaces of structural voids, tubing and cavities. It also provides effective surface passivation to protect from 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 EXAMPLES

Zerust® ActivPowder™-10F replaces thick tar-like coatings, as well as alternative greases and oil-based coatings, in sealed voids such as ship hulls, pipelines and similar cavities of all sizes. It protects various configurations of internal structures, where sweating and condensation of trapped humidity typically cause corrosion issues.



Use Zerust® ActivPowder™ for fast-acting and long-term corrosion protection of voids and sealed spaces.



APPLICATION TYPE:

CORROSION PROTECTION FOR:



ORDERING INFORMATION

■ AVAILABILITY

460-F-00004 30 lb (14 kg). Custom quantities upon request.

■ PROTECTION TYPE

Ferrous metals

■ PROTECTION LIFE

At least 3 years in water-tight enclosures, and up to 15 years in vacuum or gas-tight enclosures, such as pressure tested ship voids and other welded-seal or hermetically sealed enclosures, as between scheduled dry dock intervals.

■ SHELF LIFE

Shelf life of 2 years if stored out of direct sunlight, and in sealed original container in a mainland warehouse maintained at low humidity (< 40% RH).

■ PH AND SOLUBILITY

Slightly alkaline pH 9-10.5
Solubility > 25g/L

■ PROTECTION VOLUME

1.9 oz (54 g) protects up to 35 ft³ (1 m³) depending on environment.

■ DISPOSAL

Dispose of according to local, national and international regulations. Check for options on discarding ActivPowder products with industrial trash.



Exclusive Western Australian Distributor



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Safe for People, Equipment and the Environment

The composition of ActivPowder™-10F chemical formulation is safe by all measures of occupational health-safety for use by and near people. As with all powder products, proper respiratory protection and dust hazard prevention is required.

ActivPowder-10F vapor corrosion inhibitors do not interfere with operation of fine mechanical, electromechanical and electronic components, and improve their long-term reliability.

Zerust ActivPowder Application Instructions

Apply powder by sprinkling or dusting, or by fogging, such as through air pressure sandblast system or similar nozzle or blow pipe. Then seal the void or enclosure for hydrostatic or pressure testing, if these checks are required. Residual ActivPowder-10F powder in enclosed spaces can be left in place after years of use, or can be removed by vacuuming or water rinse. For wet lay up applications, the powder can be dissolved in water at a few percent concentration by weight, sprayed on surfaces, and then fully dried before sealing the enclosure.

Lab Test Results

Seawater Immersion Test with 1010 Steel (3.5% NaCl)



Zerust® ActivPowder™ VCI No Protection Competitor VCI Powder

SO₂ Acid Gas Test with 1010 Steel (4.5 ppm SO₂)



Competitor VCI Emitter Zerust® ActivPowder™ VCI Competitor VCI Powder

OTHER PRODUCTS AVAILABLE

ICT® 800 Series: VCI Diffusers

Self-contained, portable products that diffuse Zerust® ICT® chemicals to protect metals within enclosures, such as tool boxes, electrical boxes, etc. ActivPak® packets contain a similar powder enclosed in an easy to use drop-in packet.

ICT® 700 Series: Axxanol™ and Axxatec™ Liquid Corrosion Preventatives

Corrosion inhibitor additives and coatings for protecting parts in-between production processes, during storage or for added protection to the ICT®500 VCI film series of products during ocean shipments.

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. All statements, technical information and recommendations contained herein are based on testing and experiences NTIC believes to be reliable, but the accuracy or completeness thereof is not guaranteed. See www.zerust.com/warranty.

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