

ActivDri™ FAD12-1 Capsule

Technical Data Sheet

ZERUST[®]/EXCOR[®] ActivDri™ FAD12-1 Capsule protects metals in hard-to-reach areas of enclosed spaces by utilizing Vapor Corrosion Inhibitors (VCIs) to prevent corrosion and a silica-gel desiccant to combat humidity that affects metals and electronics in corrosive environments such as salty air or power plants. ActivDri™ FAD12-1 Capsules are easy to install as they feature a durable coated steel cable to aid in inserting and retrieving the unit from the center of a void space. Additionally, the cable is affixed to the capsule at multiple points to provide a secure hold during use. After installation, tightly seal the enclosure to trap the protective vapors inside.

ActivDri™ FAD12-1 diffuses invisible, odorless, and non-toxic ZERUST[®] VCI molecules that settle onto exposed metal surfaces inside the enclosure. Upon removal from the enclosure, the VCI will dissipate from the metal surfaces, allowing immediate use or final assembly. ActivDri™ FAD12-1 protects ferrous and aluminum against corrosion for up to 1 year[†] in a sealed enclosure. Additionally, ActivDri™ FAD12-1 protects yellow metals such as copper and brass when used as instructed.

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 | PE-plastic capsule and foam or protective foam containing active pellets. |
| Substrates | Ferrous and aluminum protection. Protects yellow metals when used as instructed. Do not place in direct contact with copper, brass, or zinc, and test before use. |
| 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

- Remove the product from the packaging.
- Mark or take note of the installation date. ActivDri™ Capsules are rated to provide up to 1 year[†] of protection (See Protection Info on page 2 for specific protection capabilities).
- Place the ActivDri™ Capsule in the most ideal location possible following the principles below:
 - Center: The ideal location to obtain maximum coverage of protection from the capsule. This position may not be possible if the center is occupied.
 - Corner: In deeper enclosures, two capsules 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 capsule 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 ActivDri™ Capsule.
 - When applying an ActivDri™ Capsule within an enclosure where the air is replaced regularly, such as air-cooling systems, it is recommended to place the capsule close to the source of airflow. For added corrosion protection, consider placing an additional ActivDri™ Capsule near the sensitive metal surface to be protected.
- Upon removal of the ActivDri™ Capsule 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.

Scan QR for more



product information
and photos

Availability

ZERUST®/EXCOR® ActivDri™ FAD12-1 Capsules is a made-to-order product sold in cases. Contact your ZERUST®/EXCOR® representative for ordering information.

| Part Number | Model | Quantity |
|-------------|---------|----------|
| 375-F-00003 | FAD12-1 | 10/Case |

Protection Info‡

| Model | Product Dimensions** L x W x H | Corrosion Protection* | | Silica Gel*** (Up to)‡ |
|-------------------|-----------------------------------|--|---------------------------------|---------------------------|
| | | Protection Volume (Up to)‡ | Protection Duration (Up to)‡ | |
| ActivDri™ FAD12-1 | 8" x 4" x 4" | 177 ft ³ (5 m ³)‡ | 1 year‡ | 7 oz. (200 g)‡ |

* Specifications are rated for an airtight enclosure with a relative humidity level of less than 40%. For more humid, contaminated, and/or frequently accessed enclosures, use multiple capsules or replace them more often.

**Dimensions are +/- 10%

*** +/- 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.
- The product may expand at high temperatures.

Disposal

- The contents of ActivDri™ FAD12-1 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).
- Since regulations vary by location, ZERUST® advises our customers to review local regulations to ensure proper disposal.

Precautions

- Do not install the capsule where it will be submerged in water.
- Avoid placing metal surfaces in direct contact with wood or cardboard (sources of moisture and acid).
- Do not disassemble. Keep away from children.
- 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.

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