



ActivCapsule™ FAC1-1(S)

Technical Data Sheet



ZERUST®/EXCOR® ActivCapsule™ FAC1-1(S) is a drop-in capsule containing proven ZERUST® Vapor Corrosion Inhibitor (VCI) technology. It is used to protect metals from corrosion in hard-to-reach areas in almost any enclosure or as a supplement to other ZERUST® VCI packaging products for added protection. ActivCapsules™ are quick and easy to install. Simply peel back the protective paper from the adhesive tape and install the capsule securely in the desired location. Next, tightly seal the enclosure or packaging to trap the protective vapors inside.

ActivCapsule™ FAC1-1(S) diffuses invisible, odorless, and non-toxic ZERUST® VCI molecules that settle onto exposed metal surfaces inside the packaging or enclosure. Upon removal from the packaging or enclosure, the VCI will dissipate from the metal surfaces, allowing immediate painting, welding, or further processing. ActivCapsule™ FAC1-1(s) works fast to protect aluminum against flash corrosion and ferrous metals for up to 1 year[†] in a sealed enclosure. Additionally, ActivCapsule™ FAC1-1(s) 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	Foam capsule VCI emitter.
Substrates	Ferrous and aluminum protection. Protects yellow metals when used as instructed. Do not place in direct contact with copper or brass, 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. ActivCapsule™ FAC1-1(S) is rated to provide up to 1 year[†] of protection (See Protection Info on page 2 for specific protection capabilities).
- Place the ActivCapsule™ 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 ActivCapsule™.
 - When applying an ActivCapsule™ within enclosures where the air is replaced regularly, such as air-cooling systems for computer equipment, it is recommended to place the capsule close to the source of airflow. For added corrosion protection, consider placing an additional ActivCapsule™ near the sensitive metal surface to be protected.
- Upon removal of the ActivCapsule™ 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.



product information and photos

Availability

ZERUST®/EXCOR® ActivCapsule™ FAC1-1(s) is a made-to-order product sold in cases. Contact your ZERUST®/EXCOR® representative for ordering information.

Part Number	Model	Quantity
375-M-00106	FAC1-1(S)	50/Case

Protection Info‡

Model	Product Dimensions** L x W x H	Normal Environment*		Aggressive Environment*	
		Protection Volume (Up to)‡	Protection Duration (Up to)‡	Protection Volume (Up to)‡	Protection Duration (Up to)‡
ActivCapsule™ FAC1-1s	1 ¼" x 1" x ¾"	4 ft³ (0.12 m³)‡	1 year‡	0.35 ft³ (0.01 m³)‡	1 month‡

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

**Dimensions are +/- 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.

Disposal

- The contents of ActivCapsule™ FAC1-1(s) 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).
- ActivCapsule™ FAC1-1(s) may be disposed of in the general solid waste trash.
- Since regulations vary by location, ZERUST® advises our customers to review local regulations to ensure proper disposal.

Precautions

- Do not install the ActivCapsule™ FAC1-1(s), 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. Safe for people. This product does not pose a health hazard to users due to its classification as an article according to UN GHS, US OSHA HazCom, and CA WHMIS regulations. Check REACH SDS for classification in EU.
- 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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Rev A

