

ZDC Desiccants
Technical Data Sheet

ZERUST®/EXCOR® ZDC Desiccant Series features montmorillonite clay packaged in Tyvek material that offers an excellent barrier to water in liquid form while also allowing water vapors to pass through. This minimizes the risk of the desiccants causing corrosion that may come in direct contact with metals when compared to other desiccants made with different materials.

Use ZDC Desiccants as a drying agent to reduce the humidity and moisture inside an enclosure during long-term shipping and storage applications. Combine with ZERUST® Vapor Corrosion Inhibiting (VCI) products for extended protection during storage and shipment. ZDC Desiccants conform to the standard of US MIL-D-3464E and DIN55473.

For over 50 years, ZERUST®/EXCOR® has delivered safe and effective corrosion management solutions across the globe via a network of 21 joint venture partnerships that offer on-site support and service in more than 70 countries. Check with your ZERUST®/EXCOR® representative for a comprehensive corrosion management solution that is most effective for your metal assets.

Typical Properties

Appearance White Tyvek sachets.
 Standards Conforms to MIL-D-3464E and DIN55473.

Description		Standard
Moisture Content% (180°C)		≤ 1.00
Moisture Adsorption Capacity%	RH=20±2%	≥ 10.5
	RH=50±2%	≥ 18.0
	RH=90±2%	≥ 23.0
Bulk Density g/L		≥ 900
Electrical Conductivity m/s		≤ 0.3
The Qualified Rate of Particle Size %		≤ 2% (<0.25 mm), =0% (<6.3 mm)

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

- Check the humidity indicator included in the ZDC Desiccant package. If the indicator is pink, the ZDC Desiccants adsorbed moisture and are no longer usable and should be disposed of.
- Do not open or remove ZDC Desiccants from the original packaging until ready to use. Immediately reseal or close the packaging containing the unused ZDC Desiccants.
- Do not wet or submerge the ZDC Desiccants in water or oil. If ZDC Desiccant appears to be wet out of the packaging, it should be disposed of.
- Do not puncture or cut the ZDC Desiccant packet.
- When packaging metal parts, line the box/crate with ZERUST® ICT®510 VCI Poly to avoid direct contact of metals with wood, paper, or cardboard (sources of moisture and acid). All exposed interior surfaces should be wrapped in ZERUST® ICT®510 VCI Poly. In addition, good general handling practices should be adopted – see **How to Use ZERUST® VCI Packaging document**.
- Do not place the ZDC Desiccant in direct contact with any metal parts. Instead, place the ZDC Desiccant in an area where the desiccant does not move around during shipment and becomes in contact with the parts.
- If using ZDC Desiccant with ZERUST® VCI diffuser products (Z-PAK®, ActivPak®, or Vapor Capsule), keep the desiccant and diffuser apart.
- Pack only clean and dry parts.
- Always wear clean and dry gloves when handling metal parts to protect them from corrosion-causing fingerprints.
- When packing, the temperature of the parts should be about the same as the room temperature to avoid condensed moisture.
- Insert additional ZERUST® materials (ICT®510 VCI Poly or ICT®420 VCI Paper) as interleave for added protection in layered packages. **Note:** interleaved applications require a ZDC Desiccant placed within each layer to provide ample adsorption.

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Availability

ZERUST®/EXCOR® ZDC Desiccants are in stock for immediate delivery and sold in cases. Additional desiccant sizes are available upon request, and minimum order quantities apply. Contact your ZERUST®/EXCOR® representative for ordering information.

Part Number	Model	Unit	Desiccant Dimension* (W x H)	Quantity
775-X-00024	ZDC-T-005	1/2	2 5/8" x 3 1/8"	600/Case
775-X-00025	ZDC-T-010	1	3" x 4 1/2"	400/Case
775-X-00030	ZDC-T-160	16	6" x 8 1/2"	150/Drum

*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 1 year from the date of shipment.
- Unused ZDC Desiccants should be immediately placed back into the original container (inner plastic bag) and sealed for storage.

Disposal

- The contents of ZDC Desiccants 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).
- ZDC Desiccants 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 desiccant 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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