



ICT®427 Premium VCI Kraft Paper

Technical Data Sheet



ZERUST®/EXCOR® ICT®427 is an acid-free, pH-neutral, and non-abrasive premium VCI kraft paper formulated to provide robust corrosion protection for demanding situations—such as high humidity and challenging metal parts during work-in-progress, shipping, and storage. The bio-based paper is sourced from responsibly managed forestry product suppliers and is fully recyclable, biodegradable, repulpable, and saturated on both sides with invisible, odorless, and non-toxic ZERUST® Vapor Corrosion Inhibitors (VCI). These VCI molecules diffuse from both sides of the paper and settle onto exposed metal surfaces inside the packaging or enclosure. Upon removal from the packaging, the VCI will dissipate from the metal surface, allowing immediate painting, welding, or further processing.

Use ZERUST® VCI Paper to interleave or wrap metals, offering a protective barrier against corrosion without compromising environmental responsibility. For additional protection in challenging environments, ZERUST® VCI Paper may be used with ZERUST® VCI poly packaging, rust inhibitors, preventatives, coatings, or VCI diffuser products. Engineered for a broad range of applications, ICT®427 VCI Paper is available in a 35# paper weight with multimetal protection formulation, making it suitable for various metal types. However, it is advisable to test before use on sensitive metals like copper and brass to ensure an ideal packaging solution. Whether in storage or transit, ZERUST® ICT®427 Premium VCI Kraft Paper delivers unparalleled performance.

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 | Natural kraft brown with printing. Custom printing is available upon request. Minimums apply. |
| Substrates | Multimetal protection formulation. Test before use on copper and brass. |
| Paper weight | 35# (57 g/m ²) |
| Vapor Inhibiting Ability (VIA) | Pass (NACE TM0208) |

* NTIC obtains its paper from U.S.-based suppliers and mills certified by the Forest Stewardship Council (FSC). Due to natural variations, the tree fibers and pulps supplied by these mills can differ based on the season and their geographical origins. While we strive to maintain a consistent quality and 'feel' in our VCI paper, the inherent diversity in nature means that the tree fibers may vary, leading to potential variations in the paper from one batch to another. However, we ensure the consistency of two key aspects: the corrosion protection performance and the weight of our paper products.

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

- ZERUST® ICT®427 VCI Paper works best when metal parts are wrapped or layered with VCI paper and placed inside a fully enclosed poly bag, box, or container.
- Avoid placing metal surfaces in direct contact with wood or cardboard (sources of moisture and acid).
- Pack only clean and dry parts. Parts coated with additional oil-based rust preventatives are acceptable.
- Always wear clean and dry gloves when handling the metal parts to protect them from corrosion-causing fingerprints.
- Avoid reusing old, torn, dirty, and contaminated VCI paper.
- For interleaving applications, use a sheet of ZERUST® ICT® VCI Paper on each layer of metal parts.
- Avoid blocking ZERUST® ICT® VCI Paper's vapors from reaching metal surfaces with other non-rust inhibiting packaging materials.
- When packing, the temperature of the metal parts should be about the same as the room temperature to avoid condensed moisture.



product information
and photos

Availability

ZERUST®/EXCOR® ICT®427 Premium VCI Kraft Paper is stocked in 35# weight rolls. Available upon request in different roll sizes and sheets. Contact your ZERUST®/EXCOR® representative for ordering information.

| Part Number | Paper Weight | Metal Type | Quantity |
|---------------|--------------|------------|---------------------|
| 300-M-00389PR | 35# | Multimetal | 36" x 200 Yard Roll |

Protection Info‡

Indoor‡ Up to 1 year‡
Outdoor‡ Not recommended

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.

Disposal

- Check on options for recycling and incineration.
- Dispose of in accordance with local, national, and international regulations.

Precautions

- Do not use for outdoor protection.
- Safe for people. This product does not pose a health hazard to users due to its classification as an article according to EU REACH, UN GHS, US OSHA HazCom, and CA WHMIS regulations.
- 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.

©2013-2024 Northern Technologies International Corporation (NTIC). All Rights Reserved. NTIC is the owner of the following trademarks: ActivPak®, Cor Tab®, EXCOR®, Flange Saver®, ICT®, Natur-VCI®, NTI®, Plastabs®, Z-CIS®, Zerion®, ZERUST®, 活乐特®, Z-PAK® and the Color "Yellow". ABRIGO®, UNICO®, and VALENO® are registered trademarks of EXCOR GmbH, a Joint Venture Partner of NTIC.

A product of:
Northern Technologies
International Corp
4201 Woodland Road
Circle Pines, MN 55014
USA

Phone. +1 763.225.6600
Fax. +1 763.225.6645
sales@zerust.com
www.zerust.com

Rev A

