

ICT®420 VCI Kraft Paper

Technical Data Sheet

ZERUST®/EXCOR® ICT®420 is an acid-free, pH-neutral, and non-abrasive VCI kraft paper that merges the practicality and cost-efficiency of paper-based packaging with advanced corrosion protection, streamlining the preservation of metals 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 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®420 VCI Paper is available in multimetal protection formulation, 30#, 35#, and 60# weights, and packaging types, including rolls and sheets with various widths, ensuring an ideal packaging solution. Whether in storage or transit, ZERUST® ICT®420 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 (ferrous, aluminum, brass, copper, and zinc).
Paper weights	30# (49 g/m^2), 35# (57 g/m^2), and 60# (98 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®420 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.

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product information and photos

Availability

ZERUST®/EXCOR® ICT®420 VCI Kraft Paper is stocked in 30#, 35#, and 60# weight rolls. Available upon request in weights between 30# and 170# in different roll sizes and sheets. Contact your ZERUST®/EXCOR® representative for ordering information.

Part Number	Paper Weight	Metal Type	Quantity
310-M-00024	30#	Multimetal	36" x 200 Yard Roll
310-M-00073	30#	Multimetal	48" x 200 Yard Roll
300-M-00005	35#	Multimetal	36" x 200 Yard Roll
300-M-00006	35#	Multimetal	48" x 200 Yard Roll
300-M-00163	35#	Multimetal	8" x 8" Sheets (1,000 Sheets/Box)
300-M-00032	35#	Multimetal	12" x 12" Sheets (2,000 Sheets/Box)
313-M-00024	60#	Multimetal	36" x 200 Yard Roll
313-M-00020	60#	Multimetal	48" 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.

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