

ZERUST®/EXCOR® Z-CIS® Methodology

Do you want to...

- Eliminate corrosion concerns?
- Achieve rust-free shipment yields of up to 100%?
- Reduce money lost to corrosion by at least 10%?

We'll show you how with the Z-CIS® System!

The ZERUST® Corrosion Inhibiting System (Z-CIS®) is the proven methodology for deploying the complex corrosion management systems necessary to ensure the protection of metal products shipments as they are handled by multiple (internal and external) stakeholders in transit around the world. ZERUST®/EXCOR® Z-CIS® is proven to meet both the rust-free and contaminant-free requirements of various OEMs sourcing from a global supply base. After implementing a Z-CIS® System, our clients generally realize total cost savings of at least 10% and rust-free shipment yields as high as 100%. Consult a ZERUST®/EXCOR® representative today to solve corrosion issues in your supply chain.

Z-CIS® Five Phase Approach

PHASE 01 IDENTIFYING STAKEHOLDERS



All entities involved in your supply chain (internal and external) affected directly or indirectly by corrosion concerns are identified as stakeholders and contacted by a ZERUST®/EXCOR® representative.

PHASE 02 PLANNING



Each entity completes a Z-CIS® Questionnaire either independently or a phone interview, so the ZERUST® Corrosion Engineering Team can properly understand all potential root causes of corrosion at the start of the project.

PHASE 03 DEPLOYMENT RECOMMENDATIONS



The ZERUST® Team reviews the project scope, corrosion control system performance requirements, and critical issues with all stakeholders.

The Z-CIS® Deployment Proposal is distributed. This document outlines the work that the ZERUST® Team would need to perform, the cost associated with the project, our initial recommendations, and any additional items/information required from the stakeholders.

Key stakeholders review and sign off on the Z-CIS® deployment proposal authorizing the ZERUST® team to start work.

PHASE 04 DEPLOYMENT



The ZERUST® Team, with customer support, collects product samples from the manufacturing site, draws samples of all processing fluids, and wash chemistry from the production line. ZERUST® evaluates the climatic stress impact of the shipping route, updates process FMEA documents, and reviews process control plans, etc.

Products and fluid samples are tested in one of our regional laboratories located around the world for corrosion management system compatibility.

The results of this study helps determine an effective corrosion protection system (several recommendations may be generated).

PHASE 05 CONTINUOUS IMPROVEMENT



A review is required with all stakeholders to decide on the corrosion protection system to be deployed.

The ZERUST® Team works with the organizations directly involved in the process change (if any) to deploy the recommended solution. The corrosion protection system is executed in a viable time frame. All results and data are kept confidential and relayed to one customer contact for dissemination.

Trial shipments are made and monitored to ensure that the new Z-CIS® System is working properly.

Regular audits against the Z-CIS® Deployment Recommendations document are conducted to ensure that the process remains in control and improvements are implemented.

ZERUST® Cleaners & Degreasers

AxxaWash™ Metal Cleaners & Degreasers

Part Number	Product	Type	Sizes
350-W-00004	AxxaWash™ KF-121	Concentrate	5*, 55 gal*
350-W-00089	AxxaWash™ KF-122	Concentrate	5*, 55 gal*
350-W-00003	AxxaWash™ KF-123	Concentrate	5*, 55 gal*
350-W-00050	AxxaWash™ KF-124	Concentrate	5*, 55 gal*
350-W-00088	AxxaWash™ KMS-220	Concentrate	5*, 55 gal*
350-W-00091	AxxaWash™ KMS-305AL	Concentrate	5*, 55 gal*
350-W-00090	AxxaWash™ KMS-310AL	Concentrate	5*, 55 gal*
350-W-00001	AxxaWash™ NW-10C	Concentrate	5, 55 gal
350-W-00002	AxxaWash™ NW-12C	Concentrate	5*, 55 gal*

* Call for availability.

Product sold in 1 gal come in case of 4.

Products sold in 16 oz come in a case of 12.

NEW! AxxaWash™ Cleaners & Degreasers

In addition to ZERUST® VCI film, paper, diffusers, rust preventative coatings, and inhibitor products, ZERUST® is now offering an increasing range of cost-effective, high-performance AxxaWash™ metal cleaners and degreasers. These products are formulated to work synergistically together to provide enhanced, comprehensive corrosion solutions for our customers. Backed by our global expert technical support and testing services, a comprehensive corrosion management program can be designed and deployed to meet each individual customer's needs.

- Application-specific products
- Overall cost reduction
- Reduction of corrosion issues associated with handling, packaging, and storage of precision machined, bare metal components
- Enhanced fluid maintenance and control procedures for extending the use life of wash fluids and rust preventative products
- Customer and product-specific operating guides
- ZERUST® assured corrosion-free results from effectively cleaned and dried parts



- Hundreds of products in stock
- Orders placed by 10:00 AM CST are shipped same business day
- No minimum orders
- Blanket orders available
- Let us store products for you!
- Custom orders available

Regular audits against the Z-CIS® Deployment Recommendations document are conducted to ensure that the process remains in control and improvements are implemented.

ZERUST® Rust Removers

AxxaClean™ Rust Removers

Part Number	Product	Type	Sizes
350-M-00014	AxxaClean™ 2048	Spray-On	16 oz*, 1*, 5*, 55 gal*
350-M-00015	AxxaClean™ 2048	Immersion	16 oz, 1, 5, 55 gal
350-M-00016	AxxaClean™ 2048	Brush-On	16 oz*, 1*, 5, 55 gal*
350-M-00095	AxxaClean™ ICT® 625-RR	Immersion	5, 55 gal

* Call for availability.

Products sold in 1 gal come in case of 4.

Products sold in 16 oz come in a case of 12.

ZERUST® ICT® Flange and Valve Covers

ZERUST® ICT® Flange Saver® - 150 PSI, Clear, Transparent

Part Number	Pipe Size	Units/Case
880-F-00001	2"	20
880-F-00003	4"	20

Other sizes available upon request.



Accessories, Tools and Kits

Part Number Description Units/Case

350-X-00003	Rust Remover Polishing Sponge	2 pack
250-X-00007	Gray preservation tape 9 mil 4" x 108'	12 rolls
250-X-00008	Gray preservation tape 9 mil 6" x 108'	8 rolls
350-M-00014	AxxaClean™ 2048 Kit 16 oz bottles (w/2 sponges)	12 bottles
250-F-00105	ZIF VCI Silicone Tape 2" x 36'	1 roll
250-F-00108	ZIF VCI Silicone Tape 4" x 36'	1 roll
250-F-00106	ZIF VCI Silicone Tape 12" x 36'	1 roll
250-F-00107	ZIF VCI Silicone Tape 16" x 36'	1 roll

ZERUST® ZDC Desiccants

ZERUST® ZDC Montmorillonite Clay Tyvek Desiccants

Part Number Unit Size Units Weight

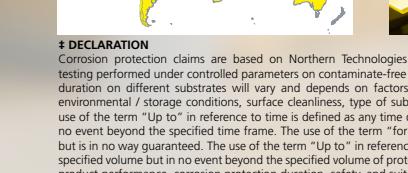
775-X-0024	ZDC-T-005 (1/2 Unit)	600/Case	26 lbs/Case
775-X-0025	ZDC-T-010 (1 Unit)	400/Case	32 lbs/Case
775-X-0030	ZDC-T-160 (16 Unit)	150/Drum	191 lbs/Drum

ZERUST® Safety & Quality

ZERUST® is committed to making safe and effective products that reduce industry's impact on the environment. Our products are approved by many major companies' toxicology, engineering, and packaging departments and comply with health and safety regulations around the globe.

For over 50 years, beginning with the invention of VCI film packaging, ZERUST®/EXCOR® has led the market in quality corrosion solution products. We are dedicated to providing expert corrosion management services and broadening the range of corrosion solutions for our customers. ZERUST® users have access to on-site support from ZERUST®/EXCOR® representatives in more than 70 countries. Our customers have peace of mind when they choose ZERUST® for corrosion control management.

ZERUST® is a product of Northern Technologies International Corporation (NTIC). A majority of ZERUST® products are proudly manufactured in the USA. NTIC's management system conforms to the ISO 9001:2015 Quality Management Standard.



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 depends on many factors including substrate type, use environment, storage conditions, surface cleanliness, type of preservative, 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.

©2013-2025 Northern Technologies International Corporation (NTIC). All Rights Reserved. NTIC is the owner of the following trademarks: ActivPak®, Cor Tab®, EXCOR®, Flange Saver®, ICB®, IC™, Natur-VCI®, NTI®, Plastabs®, Z-CIS®, Zeron™, ZERUST®, 洽乐特, Z-PAK® and the Color "Yellow". ABRIGO®, UNICO®, ICB®, and VALENO® are registered trademarks of EXCOR GmbH, a Joint Venture Partner of NTIC.

Contact a Customer Service Representative at +1 763.225.6600 or sales@zerust.com for orders, large volume pricing, availability or to learn about affordable custom options!

Northern Technologies International Corporation

ZERUST® Business Unit | Corporate Office

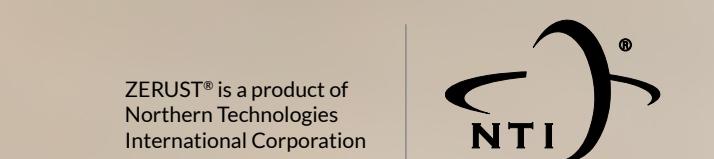
4201 Woodland Road, P.O. Box 69

Circle Pines, MN 55014 USA

www.zerust.com

Rev E4

ZERUST® is a product of Northern Technologies International Corporation



ZERUST® ICT®510-C Ferrous VCI Poly Bags

4 MIL Ferrous Yellow Plain Closure Bags

Part Number	W x L	Qty/Case	Weight/Case
025-F-00001B	3" x 5"	1,000	5 lbs
025-F-00001	3" x 5"	5,000	20 lbs
025-F-00002B	4" x 6"	1,000	7 lbs
025-F-00002	4" x 6"	2,000	13 lbs
025-F-00003	6" x 8"	1,000	13 lbs
025-F-00015	8" x 10"	1,000	21 lbs
025-F-00006	9" x 12"	1,000	29 lbs
025-F-00036	10" x 12"	1,000	34 lbs
025-F-00007	10" x 14"	1,000	37 lbs
025-F-00046B	12" x 12"	1,000	39 lbs
025-F-00008	12" x 18"	500	29 lbs
025-F-00009	18" x 24"	250	29 lbs
NEW 025-F-00371	24" x 30"	150	29 lbs
025-F-00010	24" x 36"	150	35 lbs



ZERUST® ICT® VCI Film and Sheeting

ZERUST® ICT®510-C 4 MIL Sheeting

Part Number	W x L	Weight	Type/Color
100-F-00002	36" x 500'	29 lbs	Ferrous, yellow
100-F-00064	72" x 500'	58 lbs	Ferrous, yellow
100-F-00081	12' x 250'	67 lbs	Ferrous, yellow
100-M-00045	48" x 500'	38 lbs	Multimetal, blue



ZERUST® ICT®510-C 4 MIL Ferrous Tubing

Part Number	W x L	Weight
200-F-00005	4" x 1,500'	19 lbs/roll
200-F-00006	6" x 500' (4 rolls/case)	39 lbs/case
200-F-00007	8" x 500'	13 lbs/roll
200-F-00052	12" x 1,000'	39 lbs/roll
200-F-00069	16" x 500'	26 lbs/roll
200-F-00012	24" x 500'	39 lbs/roll
200-F-00001	36" x 500'	58 lbs/roll
200-F-00002	48" x 500'	77 lbs/roll



ZERUST® ICT®510-CLHD High-Density Film

Part Number	W x L x MIL	Units/Roll	Weight
150-F-00175	13" x 12" x 1 MIL	4,000 (x 2 rolls)	42 lbs/case
150-F-00166	48" x 56" x 1.25 MIL	500 units	57 lbs/roll
150-F-00005	36" x 36" x 1.5 MIL	750 units	49 lbs/roll
150-F-00163	42" x 42" x 1.5 MIL	500 units	44 lbs/roll
100-F-00009	48" x 2,000' x 1.5 MIL	2,000 feet	58 lbs/roll



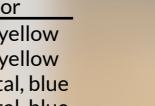
Part Number	W x L x MIL	Units/Roll	Weight
150-M-00001	36" x 36" x 1.5 MIL	750 units	49 lbs/roll

Part Number	W x L x MIL	Units/Roll	Weight
675-F-00003	30" x 30" x 1.5 MIL	100 units	8 lbs/case



ZERUST® ICT®510-SM VCI Stretch Film

Part Number	W x L x MIL	Weight/Roll	Type/Color
250-F-00006	4" x 667' x 1.25 MIL	1.6 lbs x 12 rolls	Ferrous, yellow
250-F-00002	20' x 4,000' x 1.25 MIL	40 lbs	Ferrous, yellow
250-M-00004	20" x 4,500' x 1 MIL	36 lbs	Multimetal, blue
250-M-00005	18" x 1,500' x 1 MIL	11.75 lbs x 4 rolls	Multimetal, blue



ZERUST® ICT®510-MSF VCI Masking Film

Part Number	W x L x Thickness	Weight/Case	Type/Color
100-F-00085	10" x 500' x 3 MIL	22 lbs (2 rolls/case)	Ferrous, blue



ZERUST® ICT®510 Shrink Film

Part Number	W x L x MIL	Weight/Roll	Type/Color
100-F-00010	20' x 100' x 4 MIL	39 lbs	Ferrous, yellow
100-F-00004	48" x 500' x 4 MIL	38 lbs	Ferrous, yellow
100-M-00007	20' x 100' x 4 MIL	39 lbs	Multimetal, green
100-F-01046	20' x 100' x 8 MIL	78 lbs	Ferrous, gray, UVI
100-F-99990	51" x 46" x 88"	25/roll	57 lbs/roll
100-F-00349	54" x 44" x 96"	25/roll	63 lbs/roll
100-F-00029B	57" x 48" x 85"	20/roll	48 lbs/roll
100-F-00031	82" x 40" x 79"	25/roll	65 lbs/roll



ZERUST® ICT®510-SRA Ferrous VCI Plastic Scrim Sheeting

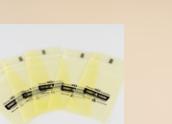
Part Number	W x L	Weight/Roll	Type/Color
600-F-00004	48" x 200 Yards	60 lbs	Ferrous, yellow



ZERUST® ICT®510-C Ferrous VCI Poly Bags

4 MIL Ferrous Yellow Zipper Bags

Part Number	W x L	Qty/Case	Weight/Case
050-F-00001B	3" x 5"	1,000	5.5 lbs
050-F-00001	3" x 5"	5,000	22 lbs
050-F-00002B	4" x 6"	1,000	7.5 lbs
050-F-00002	4" x 6"	2,000	15 lbs
050-F-00003	6" x 8"	1,000	15 lbs
NEW 050-F-00047	8" x 10"	1,000	30 lbs
NEW 050-F-00009	9" x 12"	1,000	32 lbs
050-F-00021	10" x 12"	1,000	34 lbs
050-F-00004	12" x 18"	500	31 lbs
NEW 050-F-00048	18" x 24"	250	31 lbs



2 MIL Ferrous Yellow Gusset Bags

Part Number	W x D x L	Quantity	Weight
075-F-99981	13" x 9" x 16"	1,000/roll	47 lbs/roll
075-F-00321	15" x 9" x 24"	500/case	39 lbs/case



3 MIL Ferrous Yellow Gusset Bags

Part Number	W x D x L	Quantity	Weight
075-F-00064B	22" x 16" x 30"	250/case	57 lbs/case



5 MIL Ferrous Yellow Gusset Bags

Part Number	W x D x L	Quantity	