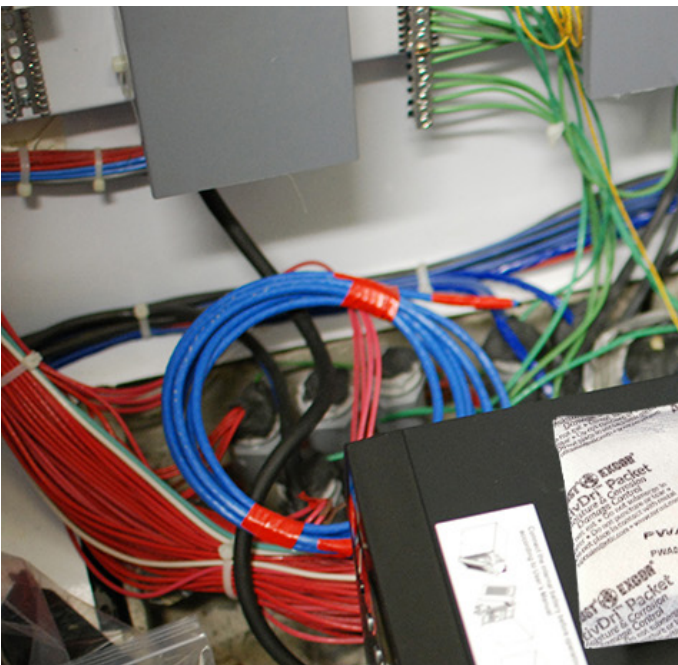


ZERUST®  EXCOR®



CORROSION SOLUTIONS FOR THE WASTEWATER INDUSTRY



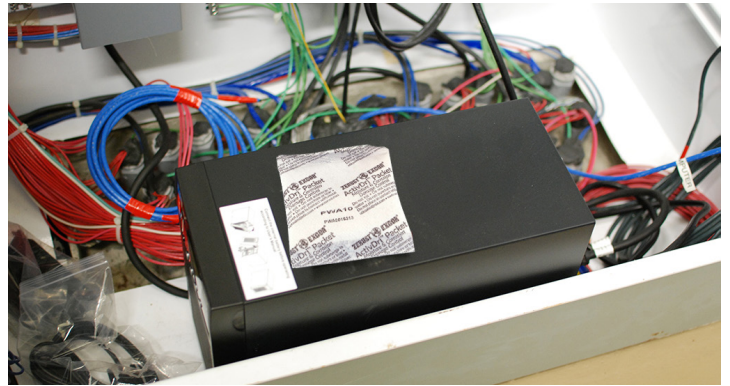
ZERUST® is a product of
Northern Technologies
International Corporation



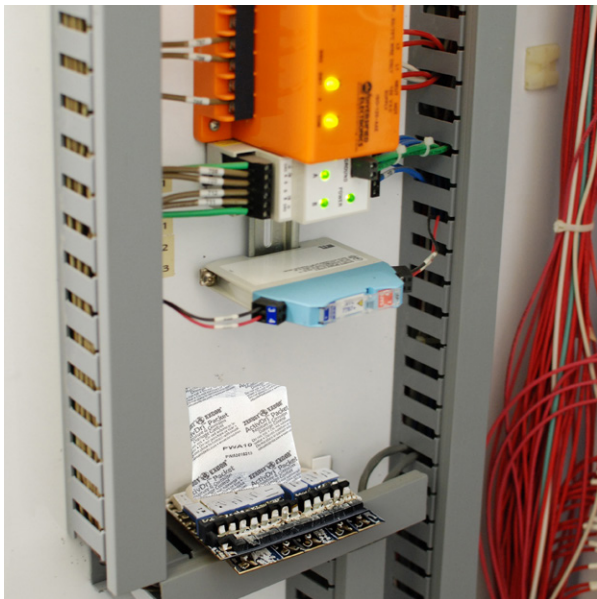
WHY CHOOSE ZERUST®?

PROVEN SAFE, RELIABLE, AND EFFECTIVE CORROSION SOLUTIONS FOR ELECTRONICS IN HIGHLY CORROSIVE ENVIRONMENTS

ZERUST® corrosion inhibiting products are a cost-effective way to protect electrics and equipment from rust and corrosion during operation, storage, and shipping. For over 50 years, ZERUST's proprietary vapor corrosion inhibitor (VCI) technology has been proven safe and effective for protecting metals. An analysis of compatibility using recognized test procedures can be arranged with a local ZERUST® representative.



THE BENEFITS OF ZERUST® CORROSION INHIBITOR PRODUCTS



- Longer equipment life and sustained reliability
- Lower operating and maintenance costs
- Reduced downtime and fewer repairs
- Protection from corrosion for multiple metal types
- Solutions for other issues such as electrostatic discharge (ESD), acid-gas and Ultra Violet (UV)

HOW ZERUST® VAPOR CORROSION INHIBITORS (VCIs) WORK

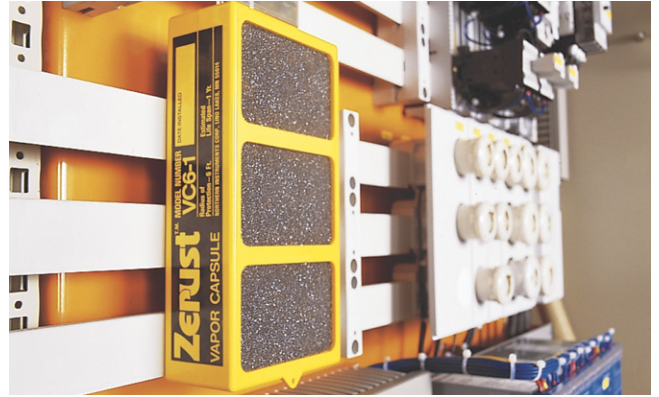
VCI molecules inhibit corrosion by preventing moisture and environmental elements from reacting with the metal surface. Since VCI molecules are transported through the air, they must be trapped around the metal surface using a poly bag or other enclosure. Later, when the enclosure or package is opened, the ZERUST® corrosion inhibiting layer dissipates, leaving clean, dry, and residue-free metals.



ZERUST® IS SAFE FOR ELECTRONICS

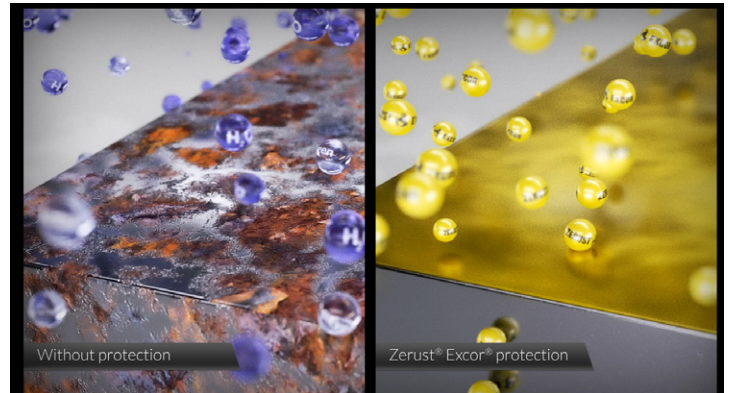
ZERUST® VCI PROTECTION

- Does not affect the functionality of the circuitry
- Does not harm printed circuit boards and sensitive ICs
- Does not leave galvanic effects, conductive residues, or surface changes
- Is clean, dry, and invisible corrosion-inhibiting technology
- Is safe and easy to use for personnel



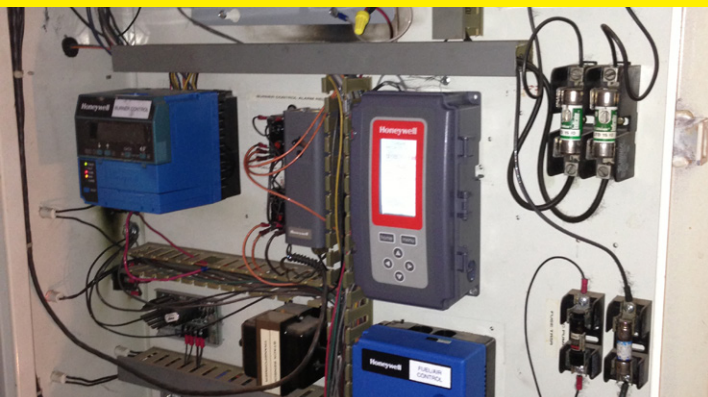
SAFE FOR ELECTRONICS, TOUGH ON HUMIDITY AND CONTAMINANTS

Reduce electronic equipment failures that lead to downtime due to corrosion with ZERUST® corrosion protection. ZERUST® protects even in electronic enclosures in corrosive atmospheres with high humidity, condensation, or traces of aggressive pollutants such as sulfides and chlorides that are found in wastewater treatment environments. ZERUST® corrosion inhibitor technologies work to combat these causes of corrosion, even acid-gases and moisture.



ZERUST® PROTECTION FOR WASTEWATER TREATMENT PLANTS

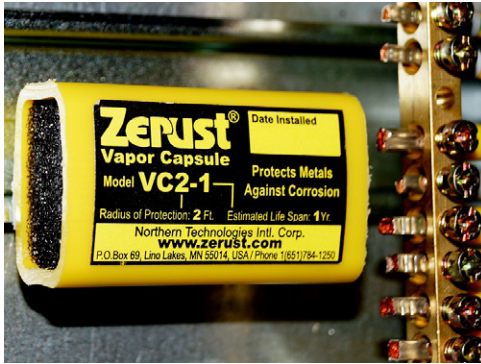
The corrosion process is especially aggressive in wastewater plant environments. ZERUST® field engineers have extensively studied our product's effectiveness in these situations. The cost and inconvenience of corrosion don't have to be accepted, now there is a solution with ZERUST®.



Avoid replacing expensive electronics. ZERUST® ActivDri™ extends the life of electronics and reduces downtime and the need to replace components.

PRODUCT SOLUTION HIGHLIGHTS

ZERUST® VAPOR CAPSULES



ZERUST®/EXCOR® Vapor Capsules safeguard electronics from corrosion with advanced VCI technology, designed for enclosed spaces like control panels and electrical cabinets. Easy to install, these capsules emit an invisible, non-toxic vapor that protects exposed metals against rust and tarnish during operation, storage, and shipment. Ideal for use with other ZERUST® VCI products for enhanced protection, they ensure metals are ready for immediate processing once removed. Offering up to 1 or 2 years[†] of corrosion defense, these capsules provide efficient and targeted protection for the electronics in the wastewater industry.

Product Name	Part Number	Volume of Protection (Up to) [†]	Metal Protection	Protection Duration (Up to) [†]	Quantity
VC1-1(s)	375-M-00006	4 ft ³	Multimetal	1 year [†]	50/Case
VC1-1	375-M-00001	4 ft ³		1 year [†]	50/Case
VC2-1	375-M-00002	35 ft ³		1 year [†]	25/Case
VC2-2	375-M-00003	35 ft ³		2 years [†]	10/Case
VC6-1	375-M-00004	900 ft ³		1 year [†]	4/Case
VC6-2	375-M-00005	900 ft ³		2 years [†]	4/Case

ZERUST® ZAK-M22 VAPOR CAPSULE



The ZERUST®/EXCOR® ZAK-M22 Vapor Capsule harnesses advanced VCI technology for protecting metals in enclosed areas like control panels, complementing other ZERUST® products for optimal corrosion control. Easy to install with an adhesive backing, it includes a unique QR code to facilitate scheduling its replacement schedule. This capsule emits non-toxic VCI molecules that shield against rust and tarnish during operation, storage, and shipment. Effective for up to 2 years[†], ZAK-M22 delivers unparalleled metal preservation in a compact, innovative design.

Product Name	Part Number	Volume of Protection (Up to) [†]	Metal Protection	Protection Duration (Up to) [†]	Quantity
ZAK-M22	375-M-00202	35 ft ³	Multimetal	1 year [†]	10/Case

ZERUST® AXXANOL™ 718-ESS ELECTRICAL CORROSION INHIBITOR SPRAY

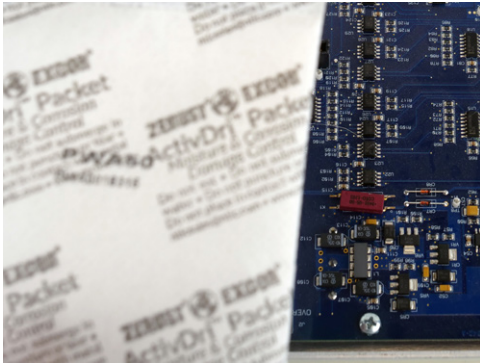


ZERUST®/EXCOR® Axxanol™ 718-ESS is a versatile corrosion inhibitor spray tailored for electronics, offering robust protection in environments with acid gas vapors and humidity. Ideal for safeguarding electronic components, electric cabinets, and junction boxes located in wastewater facilities, it also serves as a lubricant for metal surfaces like hinges and machinery. This easy-to-apply spray creates a thin, water-displacing film that's non-staining and non-hardening, ensuring electronic parts remain unaffected in terms of conductivity. Suitable for both indoor use and short-term outdoor applications.

Product Name / Model	Part Number	Metal Protection	Quantity
Axxanol™ 718-ESS / Aerosol cans	350-M-00092AC	Multimetal	12 oz aerosol cans (12/case)
Axxanol™ 718-ESS / Spray bottles	350-M-00092PT		16 oz spray bottles (w/ spray nozzles) (12/case)

PRODUCT SOLUTION HIGHLIGHTS

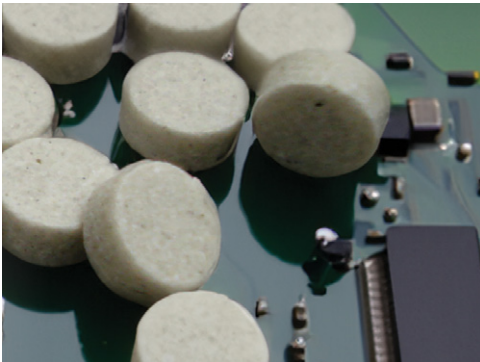
ZERUST® ACTIVDRI™ PWA PACKETS



ZERUST®/EXCOR® ActivDri™ PWA Packets offer an efficient dual-action solution for protecting electronics against corrosion and moisture. Combining moisture absorption with invisible, non-toxic Vapor Corrosion Inhibitor (VCI) technology, these packets safeguard sensitive electrical components during operation, shipping, and storage. Suitable for ferrous metals and aluminum, they provide up to 12 months[†] of protection in sealed environments and are compatible with yellow metals and silver.

Product Name	Part Number	Volume of Protection (Up to) [†]	Metal Protection	Protection Duration (Up to) [†]	Quantity
PWA5	375-M-00212	3.5 ft ^{3†}	Multimetal	1 year [†]	1,000/Case
PWA10	375-M-00213	7 ft ^{3†}		1 year [†]	500/Case
PWA25	375-M-00214	17.5 ft ^{3†}		1 year [†]	200/Case
PWA50	375-M-00215	35 ft ^{3†}		1 year [†]	100/Case
PWA100	375-M-00210	53 ft ^{3†}		1 year [†]	50/Case

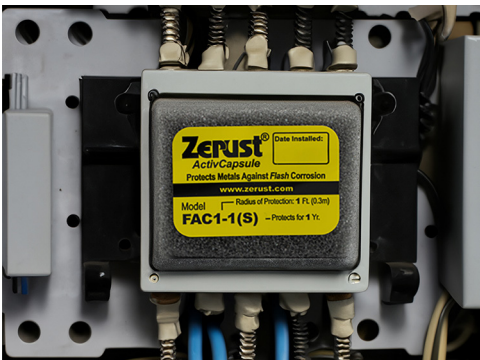
ZERUST® ACTIVTAB™(LS) TABLETS



ZERUST®/EXCOR® ICT® ActivTab™(LS) tablets deliver immediate flash corrosion protection for metals in confined spaces, like electronic cabinets, with a simple placement and enclosure sealing process. These invisible, non-toxic VCI vapors safeguard ferrous metals, aluminum, and yellow metals like copper and brass (without direct contact) for up to 6 months[†] in sealed environments. ActivTab™(LS) provides an efficient corrosion prevention solution for hard-to-reach areas.

Product Name / Tablet Size	Part Number	Volume of Protection (Up to) [†]	Metal Protection	Protection Duration (Up to) [†]	Quantity
ActivTab™(LS)-25 / 0.25 g	450-M-00100	0.25 ft ^{3†}	Ferrous and aluminum protection. Limited yellow metal protection when used as instructed. Do not place in direct contact with copper, brass, or zinc, and test before use.	6 months [†]	600 Tablets/Bottle and 8 Bottles/Case

ZERUST® ACTIVCAPSULE™ FAC1-1(S)



ZERUST®/EXCOR® ActivCapsule™ FAC1-1(S) is a simple, effective drop-in flash-corrosion prevention capsule using VCI technology for protecting metals in hard-to-reach areas or alongside other ZERUST® products. Easily installed with an adhesive back, it releases non-toxic, invisible vapors that safeguard metal surfaces, allowing for immediate processing post-removal. It offers up to 1 year[†] of corrosion protection for aluminum and ferrous metals in sealed environments and is compatible with copper and brass, ensuring comprehensive metal safety.

Product Name	Part Number	Volume of Protection (Up to) [†]	Metal Protection	Protection Duration (Up to) [†]	Quantity
FAC1-1(S)	375-M-00106	4 ft ^{3†}	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.	1 year [†]	50/Case

PRODUCT SOLUTION HIGHLIGHTS

ZERUST® ICT®510-C MULTIMETAL VCI FILM

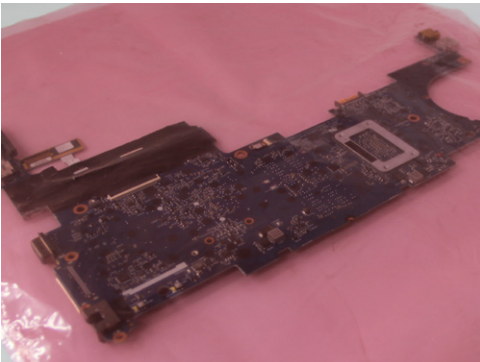


ZERUST®/EXCOR® ICT®510-C Multimetal VCI Film delivers targeted corrosion prevention in aggressive environments, suitable for ferrous and non-ferrous metals in transit or storage. Emitting safe, invisible VCI vapors, it protects electronic components and equipment against rust, with the flexibility of various packaging formats, including rolls, sheets, and bags. Once removed, the VCI evaporates, making metals ready for immediate use. Customizable with options like anti-static additive, ICT®510-C offers a comprehensive solution for electronic components' corrosion challenges in wastewater environments.

Custom size ranges (width):

Bags & Tubing:	Sheeting:
2" – 125" (flat)	2" – 26'
2" – 150" (gusset)	

ZERUST® ICT®510-ATS ANTI-STATIC VCI FILM

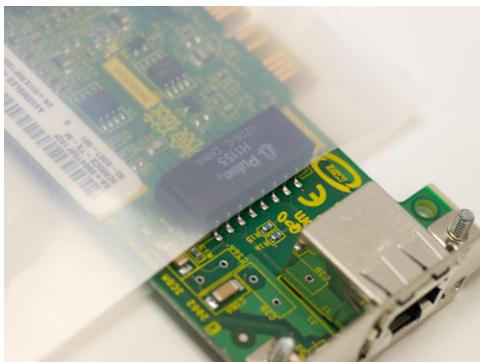


ZERUST®/EXCOR® ICT®510-ATS VCI Film offers a dual-protection solution for electronics in the wastewater industry, safeguarding electrical components against electrostatic discharge and corrosion during shipping, storage, or processing. ICT®510-ATS combines anti-static additives with VCI technology to protect a variety of metals, including ferrous, aluminum, and copper, without leaving residue. Ideal for electronics and electrical assemblies, the film ensures metal surfaces are protected by invisible, non-toxic VCIs, allowing for immediate use post-unpackaging. Available in multiple formats like rolls and bags, ICT®510-ATS provides versatile and reliable protection for electronic components in wastewater facilities.

Custom size ranges (width):

Bags & Tubing:	Sheeting:
2" – 125" (flat)	2" – 26'
2" – 150" (gusset)	

ZERUST® ICT®520-CB1 ANTI-TARNISH FILM



ZERUST®/EXCOR® ICT®520-CB1 Anti-Tarnish Film is designed for electronics, preventing tarnish by blocking acid gases during shipping, storage, or assembly. This film, impregnated with acid-gas scavengers, protects sensitive metals like silver, copper, and brass used in electronic components and wiring, ensuring they remain oxidation-free without residue. Compatible with other ZERUST® VCI products for comprehensive protection, ICT®520-CB1 is cost-effective and clear for easy inspection. Available in rolls, sheets, and bags, with customization options such as an anti-static additive, it safeguards electronic metals.

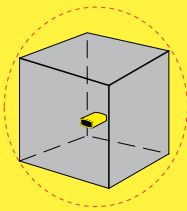
Custom size ranges (width):

Bags & Tubing:	Sheeting:
2" – 125" (flat)	2" – 26'
2" – 150" (gusset)	

ZERUST® CORROSION INHIBITOR DIFFUSER INSTALLATION GUIDE

ZERUST® Vapor Diffusers are easily installed in seconds without tools or specialized labor.

1. To activate, simply take the diffuser out of its packaging.
2. Note the installation date. Vapor Capsule products include a space to mark the date.
3. Place in the enclosure as close to the center as possible.
4. Make sure the diffuser has maximum surface space exposed for ideal diffusion.
5. Tightly seal the enclosure to restrict airflow.



The ideal location to obtain maximum coverage of protection from the diffuser is the center. This position may not be possible if the center is occupied.



Securely close the cabinet or enclosure to restrict airflow, which traps protective vapors inside. Airflow removes the protective vapor from the space faster than the diffuser can release it. Visit www.zerust.com to view videos on how to use and install vapor diffusers.

ZERUST® COMPREHENSIVE CORROSION SOLUTIONS

ZERUST® delivers safe and effective corrosion solutions across the globe. ZERUST® has on-site representation in over 70 countries to provide seamless support wherever you need it. Have a challenging corrosion prevention need, such as overseas shipping or contending with corrosive environments? Contact ZERUST® for a comprehensive corrosion management solution to meet your needs.



ZERUST® expert actively applying AxxaClean™ 3048, showcasing our efficient rust removal solution in action.



ZERUST® technical service team on location, integrating ZERUST® corrosion protection technologies into a customer's manufacturing line.



ZERUST® Axxanol™ Spray-G rust preventative coating protects electronic control panels outdoors.



ZERUST® Flange Saver® covers protect pipe flanges from corrosion.

Global Support

- | | | | |
|-----------------|------------|-----------------|----------------|
| Algeria | Denmark | Mexico | Sri Lanka |
| Angola | Ecuador | Monaco | Sweden |
| Argentina | Estonia | Morocco | Switzerland |
| Australia | Finland | Nepal | Taiwan |
| Austria | France | Netherlands | Thailand |
| Bangladesh | Gabon | Nigeria | Tunisia |
| Belarus | Germany | Norway | Turkey |
| Belgium | Hungary | Peru | Ukraine |
| Bhutan | India | Philippines | United Arab |
| Bolivia | Indonesia | Poland | Emirates and |
| Brazil | Ireland | Portugal | MENA |
| Canada | Italy | Republic of | (Middle East & |
| Chile | Japan | Congo | North Africa) |
| China | Kazakhstan | Romania | United Kingdom |
| Colombia | Korea | Singapore | United States |
| Czech Republic | Latvia | Slovak Republic | Uruguay |
| Democratic | Lithuania | Slovenia | Vietnam |
| Republic of the | Luxembourg | South Africa | |
| Congo | Malaysia | Spain | |

Visit www.zerust.com for more information!

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† 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.