

# Zerust® ICT™ Vapor Capsules

**TECHNOLOGY THAT PROTECTS METAL FROM CORROSION**

## FEATURES

- Proven corrosion protection
- Easy-to-use
- Non-toxic & odorless
- Fits restricted spaces
- Does not leave residue on electrical contact surfaces

## BENEFITS

- Reduce corrosion incidences
- Improve equipment reliability
- Reduce need for inspection & rework
- Save money & resources
- Comes with Zerust® global on-site support

Supplement current corrosion inhibiting packaging methods by using Zerust® ICT™ Vapor Capsules to protect interior surfaces of your shipment.



Supplemental Protection

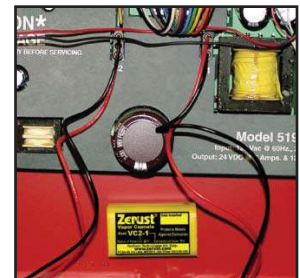
## APPLICATION TYPE

## PRODUCT INFORMATION

Zerust® ICT™ Vapor Capsules are easy-to-use, portable capsules that contain patented Zerust® ICT™ corrosion inhibiting technology. Zerust® ICT™ Vapor Capsules emit powerful corrosion inhibiting molecules into an enclosure that settle on metal surfaces and protect them from corrosion. Zerust® ICT™ Vapor Capsules can be easily affixed to most surfaces with their peel-adhesive backing. Use Vapor Capsules to protect multiple metal types from corrosion in almost any enclosure or as a supplement to other Zerust® ICT™ packaging products for added protection. Zerust® ICT™ Vapor Capsules are particularly suitable for the corrosion protection of enclosures holding electrical gear as they leave no residue on contact surfaces.

### APPLICATION EXAMPLES

A ZERUST® VC2-1 VAPOR CAPSULE PROTECTING ELECTRICAL CONNECTIONS IN A SMALL ENCLOSURE.



A ZERUST® VC6-1 VAPOR CAPSULE PROTECTING AN ENTIRE CONTROL ROOM FROM CORROSION.



## CORROSION PROTECTION FOR:



# ORDERING INFORMATION

## ■ AVAILABILITY

Sold by the case. Call for pricing and quantity information.

## ■ PROTECTION TYPE

Available in multimetal corrosion protection capability.

## ■ PROTECTION VOLUME/RADIUS

Please refer to the Sizes & Specifications chart on right.

## ■ PROTECTION LIFE

Will protect metals for 1 to 2 years (depending on the product model) if positioned properly within an enclosure. Limit air exchange within the enclosure to maximize the protection life.

## ■ SHELF LIFE

Shelf life of 2 years if stored out of direct sunlight, at 85° F or less and in original packaging.

## ■ IMPORTANT INFORMATION

Do not install where capsule will be submerged in water.

Avoid repeated use at temperatures above 180° F.

Zerust® Vapor Capsules may yellow paper over time; do not use in the proximity of valuable documents.

## QUESTIONS?

Please contact a Customer Service Representative at +1 (763) 225-6600 or email [sales@zerust.com](mailto:sales@zerust.com).

**Zerust® EXCOR®**

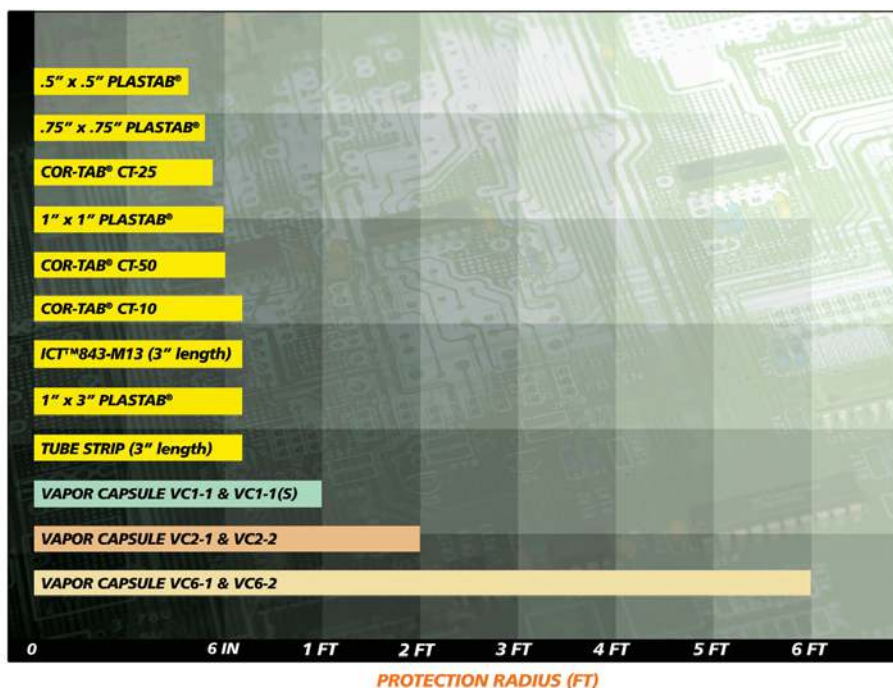


Forcorp Pty Ltd  
Unit 1, 9 Christable Way  
Landsdale WA 6065  
Ph: 61 8 9406 3200  
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## SIZES & SPECIFICATIONS

Product Name	Volume of Protection	Radius of Protection	Duration of Protection	Adhesive Backing
VC1-1 (S)	4.2 ft³ (0.12 m³)	1 ft (0.3 m)	1 year	Yes
VC1-1	4.2 ft³ (0.12 m³)	1 ft (0.3 m)	1 year	Yes
VC2-1	33.5 ft³ (0.95 m³)	2 ft (0.6 m)	1 year	Yes
VC2-2	33.5 ft³ (0.95 m³)	2 ft (0.6 m)	2 years	Yes
VC6-1	905 ft³ (25.63 m³)	6 ft (1.8 m)	1 year	No
VC6-2	905 ft³ (25.63 m³)	6 ft (1.8 m)	2 years	No

## ICT™800 SERIES OVERVIEW: DIFFUSERS



**We offer a full range of corrosion inhibiting diffusers.**

For more information about the various products listed above, please contact us at +1 (763) 225-6600 or visit our web site at [www.zerust.com](http://www.zerust.com).

## OTHER PRODUCTS AVAILABLE

### ICT™ 500 Series: Packaging Films

Our most widely used series of products. A variety of films offer short or long-term corrosion protection for parts and equipment during storage or shipment.

### ICT™ 700 Series: Liquid Additives and Coatings

Temporary corrosion protection for parts in-between production processes, during storage or for added protection to the ICT™ 500 series products during ocean shipments.



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## PRODUCT INFORMATION

### THE PROBLEM

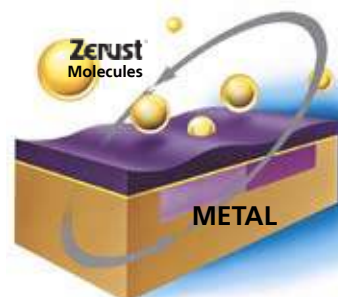
Offshore oil platforms, refineries, retail gas stations and other such facilities typically operate in a humid environment that contains relatively high concentrations of contaminants that cause high, unpredictable, aggressive corrosion. Corrosion of automation systems, electrical control boxes, retail fuel pump meters, connectors, contacts, relays, switches and printed circuit boards, causes unscheduled maintenance and reliability issues at these facilities. Few enclosures can be economically protected by air conditioning or a fully hermetic vacuum seal. Even explosion-proof housings aspirate ambient air through the long thread channel of the cast housings and by diffusion through seals and gaskets. Traditional protection methods such as painting, greases, electrical heaters inside control boxes to prevent condensation, etc. are not effective.

Problems caused by corrosion include resistivity changes and intermittent contact failures in critical alarm and control functions, added local heating and power loss in critical components, solderability issues for circuit boards, changing the calibration of analog meters and, ultimately the integrity of cabinets are compromised.

### THE SOLUTION

For over 30 years, Northern Technologies International Corporation (NTIC) has used proprietary Vapor Corrosion Inhibitors (VCIs) to protect metal substrates across numerous industries. The specific solution recommended for electronics and electrical control boxes is NTIC's line of Zerust® ICT® Vapor Capsules. These capsules are available in various sizes to suit multiple applications.

#### Protected by Zerust® ICT® Vapor Capsules



#### No Protection



### NTIC'S OIL & GAS CLIENTS

- Petrobras, Brazil
- Emirates Petroleum Products Company (EPPCO), UAE
- Conoco-Philips, USA
- Shell, Malaysia
- Shell, Philippines
- Exxon-Mobil, USA
- Baker-Hughes, USA
- Halliburton, USA

### BENEFITS OF ZERUST®

- Reduce maintenance costs
- Reduce corrosion incidences
- Reduce repair and inspection time during shutdowns
- Increase safety due to prevention of equipment failures
- Comes with Zerust® global on-site support

Zerust® ICT® Vapor Capsules perform exceptionally well in the high humidity, high temperature environments typical of oil rig operations.



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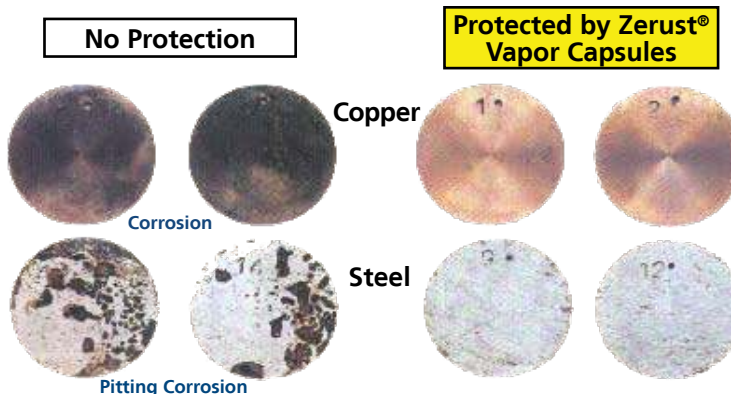
## EFFECTIVENESS

Multimetal Corrosion Protection Performance Test

Test Period: 29 Days

Corrosive Indoor and Outdoor Environments

Temperature: Room Temperature (10° to 20°C), heated to 40°C for 44.5 hrs and 50°C for 62 hrs



## INSTALLATION

Zerust®ICT® Vapor Capsules are easily installed in a matter of seconds without tools or specialized labor. Simply peel the cover tape from the adhesive backing and affix to most surfaces.

