

# CORROSION SOLUTIONS FOR THE MILITARY



ZERUST® is a product of Northern Technologies International Corporation



# WHY CHOOSE ZERUST®?

## PROVEN SAFE, RELIABLE, AND EFFECTIVE CORROSION SOLUTIONS FOR THE MILITARY

ZERUST® corrosion inhibiting products are a cost-effective way to protect military equipment from rust and corrosion during 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.



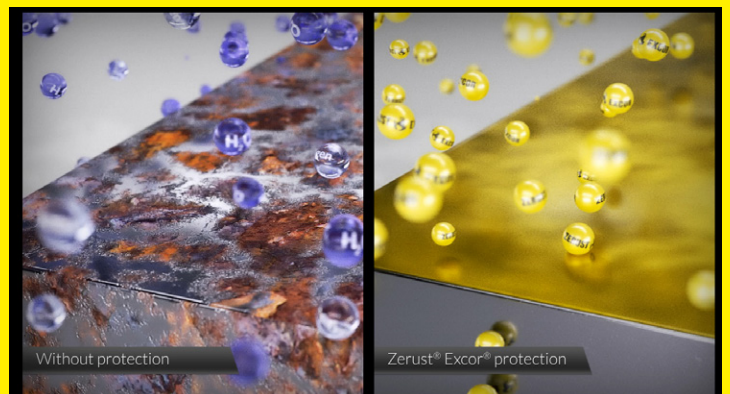
## THE BENEFITS OF ZERUST® CORROSION INHIBITOR PRODUCTS



- **Ease of Use:** VCI paper and poly are simple to use and do not require specialized equipment or labor to apply, making them cost-effective.
- **Environmentally Friendly:** VCI paper and poly are environmentally friendly and do not release harmful substances into the air or soil.
- **Reusability:** VCI paper and poly can be reused multiple times, making them a more sustainable option compared to traditional coatings.
- **Protection in Enclosed Spaces:** VCI paper and poly provide protection against corrosion in enclosed spaces, such as containers or storage areas, where traditional coatings may not be effective.
- **Cost-Effective:** VCI paper and poly are cost-effective as they reduce the need to reapply, compared to traditional coatings.

## 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® VCI CORROSION SOLUTIONS FOR THE MILITARY

The military frequently faces the challenge of corrosion, given that their equipment is often subjected to harsh conditions both in use and during storage. Consequently, the equipment can become compromised without an effective method to inhibit corrosion, necessitating additional refurbishing costs and effort.



ZERUST®, boasting a wealth of experience, has carved a niche as a trusted name in the domain of corrosion prevention for the military. A significant number of ZERUST® VCI (Vapor Corrosion Inhibitors) and corrosion-inhibiting products not only meet Mil Specs but also carry NSN numbers, thereby bolstering our credibility. Furthermore, these products are extensively used by the armed forces, as evidenced by our CAGE number: 56758. This widespread usage underscores the effectiveness and reliability of ZERUST® products in providing top-tier corrosion protection.

Over the years, the military has consistently relied on VCIs to shield metal equipment from corrosion. The application of these inhibitors serves a crucial purpose. Specifically, the use of VCIs in the military is driven by the need to protect metal equipment in harsh and challenging environments. Moreover, this practice aims to extend the life of the equipment, and ultimately, the overarching goal is to reduce maintenance costs.

In conclusion, the use of VCIs in the military is steadily increasing, largely due to their proven effectiveness in preventing corrosion and extending the life of metal equipment. On the financial side, VCIs are cost-effective. Moreover, they are easy to use. In terms of environmental considerations, they are also environmentally friendly, making them an ideal solution for the military. As time progresses, and as the military continues to search for efficient ways to protect its equipment and reduce maintenance costs, it becomes increasingly likely that the use of VCIs will continue to expand.

## MILITARY VCI PACKAGING SOLUTION EXAMPLES



# PRODUCT SOLUTION HIGHLIGHTS

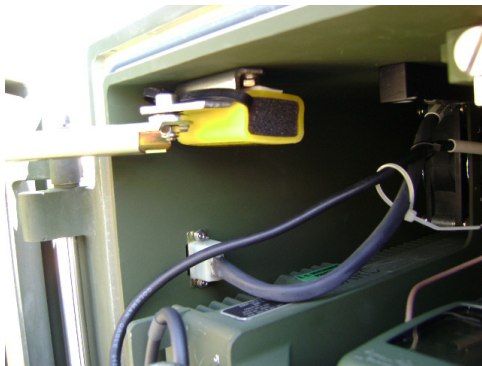
## ZERUST® ICT® POLY VCI WEAPON BAGS



ZERUST® ICT®510-C VCI weapon bags are a proven solution for the military, primarily offering substantial protection for firearms. Furthermore, these VCI bags, approved by the government, are designed to guard against rust and corrosion, thus extending the life of military weapons during storage and transport, even in harsh environments. Offering variety, the VCI weapon bags come in two different sizes. The small size is intended for safeguarding pistols and small accessories, while the larger size is designed specifically for rifles.

Part Number	NSN #	Dimensions x Thickness	Description	Quantity
910-F-00006-KIT-100	6850-01-590-1665	14" x 60" x 6 MIL	Rifle VCI Bag	100/Case
910-F-00007-KIT-100	TBD	10" x 18" x 4 MIL	Handgun VCI Bag	100/Case

## ZERUST® VAPOR CAPSULES



ZERUST® Vapor Capsules are a highly effective and economical solution for protecting military equipment and electronics. The mechanism involves the release of a corrosion-inhibiting vapor that forms a thin, invisible layer on the metal surface. This process, in turn, prevents rust and corrosion. Notably, this method is greatly beneficial to the military, ensuring both the integrity and longevity of their assets. As a result, this ZERUST® VCI technology is approved and trusted by the government.

Product Name / Part Number	NSN #	Volume of Protection (Up to) <sup>†</sup>	Metal Protection	Quantity
VC1-1(s) / 375-M-00006	6850-01-426-3539	4 ft <sup>3†</sup>	Multimetal	50/Case
VC1-1 / 375-M-00001	6850-01-338-1393	4 ft <sup>3†</sup>	Multimetal	50/Case
VC2-1 / 375-M-00002	6850-01-475-9949	35 ft <sup>3†</sup>	Multimetal	25/Case
VC2-2 / 375-M-00003	6850-01-133-0373	35 ft <sup>3†</sup>	Multimetal	10/Case
VC6-1 / 375-M-00004	6850-01-590-1676	900 ft <sup>3†</sup>	Multimetal	4/Case
VC6-2 / 375-M-00005	6850-01-348-1090	900 ft <sup>3†</sup>	Multimetal	4/Case
ZAK-M22 / 375-M-00202	N/A	35 ft <sup>3†</sup>	Multimetal	10/Case

## ZERUST® ICT® TUBE STRIP



ZERUST® Tube Strips offer an effective solution for protecting military firearms and other pipes/tubes used in the field. These Tube Strips, uniquely infused with VCI, are strategically placed inside the tubes. Once inside, the VCI molecules act swiftly to form a protective layer on the internal metal surface of the tube/pipe, thus preventing rust and corrosion. Notably, this method ensures the integrity and longevity of military assets, providing an economical and reliable solution for corrosion control.

Part Number	NSN #	Volume of Protection (Up to) <sup>†</sup>	Metal Protection	Quantity
475-F-00001	6850-01-590-1673	2"(5 cm) diameter pipe <sup>†</sup>	Ferrous	1000' Roll

# PRODUCT SOLUTION HIGHLIGHTS

## ZERUST® COR TAB® VCI TABLETS



ZERUST® Cor Tab® Tablets provide effective corrosion control, ensuring the integrity and longevity of essential military equipment. When strategically placed in storage or transport environments, they release VCI, forming a protective layer on metal surfaces, effectively preventing rust and corrosion. Cor Tabs® have received governmental approval for use, further testifying to ZERUST's ability to deliver reliable results in asset protection.

Part Number	NSN #	Tablet Size	Volume of Protection (Up to) <sup>†</sup>	Metal Protection	Quantity
450-M-00001	6850-01-348-1092	0.25 gram	0.25 ft <sup>3</sup> †	Multimetal	600/bottle and 8 bottles/case
450-M-00002	6850-01-349-7073	0.50 gram	0.5 ft <sup>3</sup> †	Multimetal	300/bottle and 8 bottles/case
450-M-00003	N/A	1.00 gram	1.0 ft <sup>3</sup> †	Multimetal	150/bottle and 8 bottles/case

## ZERUST® ICT® PLASTABS®



ZERUST® Plastabs® release vapor corrosion inhibitors that form a protective layer on metal surfaces, thereby ensuring the integrity and longevity of military equipment. Approved by the government and trusted by the army, ZERUST® Plastabs® significantly benefits the United States military's corrosion prevention efforts.

Part Number	NSN #	Size	Volume of Protection (Up to) <sup>†</sup>	Metal Protection	Quantity
425-M-00001	6850-01-362-9256	1" x 1"	0.4 ft <sup>3</sup> †	Multimetal	1000/Package
425-M-00002	6850-99-551-9054	0.75" x 0.75"	0.2 ft <sup>3</sup> †	Multimetal	1000/Package
425-M-00003	N/A	0.50" x 0.50"	0.1 ft <sup>3</sup> †	Multimetal	1000/Package
425-M-00004	N/A	0.75" x 0.75" (w/adhesive)	0.2 ft <sup>3</sup> †	Multimetal	1000/Package
425-M-00010	6850-01-590-1667	1" x 3" (debossed)	1.0 ft <sup>3</sup> †	Multimetal	1000/Package

## ZERUST® AXXANOL™ Z-MAXX



ZERUST® Axxanol™ Z-Maxx is a trusted military-grade grease that provides superior corrosion protection for military parts and components of machinery and equipment, even under extreme weather and salt-air conditions. As a result, it extends the lifespan of the equipment. Its economical and effective nature makes it a leading choice for military management because it outperforms most petroleum-based corrosion preventive coatings. Additionally, it is easier to apply and remove, thus saving on labor and maintenance costs.

Part Number	NSN #	Indoor Protection Length (Up to) <sup>†</sup>	Outdoor Protection Length (Up to) <sup>†</sup>	Metal Protection	Quantity
360-M-00001PL	N/A	3 years <sup>†</sup>	1 year <sup>†</sup>	Multimetal	5 Gallons
360-M-00001DR	N/A	3 years <sup>†</sup>	1 year <sup>†</sup>	Multimetal	55 Gallons



# Global Support

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

Visit [www.zerust.com](http://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](http://www.zerust.com/warranty).