

# Zerust® Axxanol™ 33

TECHNOLOGY THAT PROTECTS METAL FROM CORROSION

## FEATURES

- Proven corrosion protection
- Easy-to-apply and remove
- Compatible with most engine lubricants

## BENEFITS

- Reduces corrosion incidences
- Reduces need for rework
- Saves money & resources
- Comes with Zerust® global on-site support

Replace your current oiling system with Zerust® Axxanol™ 33 and realize a significant difference in the quality of your parts. No more rust!

## PRODUCT INFORMATION

Zerust® Axxanol™ 33 is an easy-to-use oil-based corrosion preventive coating that is widely used as a replacement for standard oil in dipping applications. Axxanol™ 33 provides powerful corrosion protection against aggressive environments (salt air, high temperatures, etc.) for ferrous and some non-ferrous metals including iron, steel, aluminum, zinc, copper and solder for up to six months under shelter.

Typical Zerust® Axxanol™ 33 applications include corrosion protection for in-line rolling mill applications, cold rolled sheet and coils, wire bar, and cast & machined ferrous and non-ferrous metals during shipment and storage. Use Axxanol™ 33 in conjunction with Zerust® Ferrous Film for a more robust solution that provides corrosion protection for up to five years.

### APPLICATION EXAMPLES

ZERUST® AXXANOL™ 33 PROTECTING A TORQUE CONVERTER FROM CORROSION DURING SHIPMENT FROM KOREA TO THE USA.



ZERUST® AXXANOL™ 33 PROTECTING A CRANKSHAFT FROM CORROSION DURING SHIPMENT FROM FINLAND TO THE USA (SHOWN IN A DUAL PROTECTION SYSTEM WITH ZERUST® FERROUS FILM).



## APPLICATION TYPE

## CORROSION PROTECTION FOR:



NORMAL ENVIRONMENT

AGGRESSIVE ENVIRONMENT

EXTREME ENVIRONMENT

# ORDERING INFORMATION

## ■ AVAILABILITY/PART NUMBER

5 Gallon Pail: 350-M-00003PL  
55 Gallon Drum: 350-M-00003DR

## ■ PROTECTION TYPE

Protects ferrous and some non-ferrous metals including iron, steel, aluminum, zinc, copper and solder.

## ■ PROTECTION LIFE

If properly applied, Axxanol™ 33 will protect metals for up to 6 months under shelter.

## ■ FLASH POINT

355° F/ 170° C (CoC Method)

## ■ VISCOSITY

Viscosity: SUS @ 100° F/ 38° C (ASTM D2161), Typical 105 cp

## ■ COVERAGE

Film Thickness: <0.3mil/7.6µ (drained)  
Covers 3000 ft<sup>2</sup> (300 m<sup>2</sup>)/gal (drained)  
Covers 500 ft<sup>2</sup> (46 m<sup>2</sup>)/gal (30 sec drain)

## ■ SHELF LIFE & HANDLING

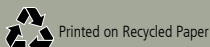
Shelf life of 2 years if stored in original container, at 85° F/ 29° C or less and out of direct sunlight.

## ■ DISPOSAL

Treat as petroleum waste. Dispose of in accordance with local, national and international regulations.

**ZERUST® EXCOR®**

A product of:  
**Northern Technologies International Corporation**  
4201 Woodland Road  
P.O. Box 69  
Circle Pines, MN 55014  
PH: +1 (763) 225-6600  
FAX: +1 (763) 225-6645  
EMAIL: sales@zerust.com  
WEB: www.zerust.com



## DIRECTIONS FOR USE:

1. Make sure parts are clean and dry.
2. Wear gloves when handling parts to avoid corrosion causing fingerprints.
3. Apply in a well ventilated area.
4. Spray, slush, brush or dip metal parts with Axxanol™ 33. Use NIOSH approved mist or air supplied respirator when material is sprayed.
5. Package parts using Zerust® materials for added corrosion protection.
6. Ship or store parts in protected storage (protects up to eight months under shelter).

## REMOVAL:

Zerust® Axxanol™ 33 can be easily removed with any commercially available alkaline cleaner or solvent. *Always check with your customer to see if removal of Axxanol™ 33 is required prior to the use.*

## ICT®700 SERIES OVERVIEW: LIQUID ADDITIVES & COATINGS

Product Name	Metals Protected	Corrosion Protection Life Outdoors	Corrosion Protection Life Indoors*	Formulation Base	Surface Finish
Axxatec™ 77C (1:24 dilution)	Iron, steel, aluminum, brass, zinc and copper	Not recommended	3-4 months*	Water-based	Thin, cloudy, visible
Axxanol™ 33CD (2%)	Iron, steel and copper	Not recommended	4-6 months*	Solvent-based	Very thin oil, dry to touch
Axxanol™ 34CD	Iron, steel, aluminum, zinc, copper and solder	Not recommended	6 months*	Solvent-based	Very thin oil
Axxanol™ 33	Iron, steel, aluminum, zinc, copper and solder	Not recommended	6-8 months*	Oil-based	Thin oil
Axxanol™ 46-BIO	Iron, steel, aluminum, zinc and solder	1-3 months	10-12 months*	Bio-based	Thin oil
Z-Maxx	Iron, steel, aluminum, brass, zinc and copper	9-12 months	18-24 months*	Oil-based	Thick, grease

\*Indoors or under shelter. Check with your Zerust® sales representative about details on protection with packaging which extends protection life beyond five years.

We make a variety of products that are right for your specific situation. For more information about the various products listed above, please visit our web site at [www.zerust.com](http://www.zerust.com) or contact us at +1 (763) 225-6600.

## 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®600 Series: Rust Removers

Highly effective rust removers for light to severe rust removal. All ICT®600 series rust removers are non-toxic, non-hazardous & non-corrosive.

#### Warranty and Disclaimer information:

We guarantee our product conforms to documented quality specifications. Product information subject to change without notice. We make no warranty of any kind expressed or implied. See [www.zerust.com/warranty](http://www.zerust.com/warranty).

©2011 Northern Technologies International Corporation (NTIC). All Rights Reserved. NTIC is the owner of the following trademarks: NTI®, NIC®, ZERUST®, The ZERUST People®, MATCH TECH®, Cor-Tab®, Plastabs®, ICT®, COR-SCI®, Z-CIS® and the Color "Yellow". EXCOR®, VALENO®, ABRIGO® and UNICO® are registered trademarks of EXCOR GmbH, a Joint Venture Partner of NTIC.