

# Zerust®

## Ferrous Bag & Shroud Film

### Corrosion Protection Film For Ferrous Metals



### Cost Effective and Versatile Barrier Against Corrosion

**Zerust® Ferrous Bag and Shroud Film** is a special packaging film containing proprietary Zerust® corrosion inhibiting additives developed to prevent the corrosion of ferrous metals, such as iron, steel, and cast iron.

**Zerust® Ferrous Bag and Shroud Film** contains proprietary chemical formulations that release an invisible, odorless, non-toxic rust and corrosion inhibiting vapor into the air. The Zerust® vapor molecules will settle on exposed metal surfaces in an enclosure and protect them from rust and corrosion for up to 5 years.

An extremely versatile product, **Zerust® Ferrous Film** is available in bags, liners, sheeting, tubing, and custom sizes to meet the individual corrosion protection needs of any industry.

**Zerust® Ferrous Bag and Shroud Film** is heat sealable and can protect ferrous metals for years without supplemental protection.

All **Zerust®** corrosion inhibiting products are environmentally friendly, non-toxic, odorless, and non-allergenic.

**Zerust® Products** have been cleared by the US Food & Drug Administration for protecting metals used in food processing and packaging.

**Zerust® Ferrous Bag and Shroud Film** does not interfere with the properties or functionality of the items being protected.

**Zerust®** products have no coating of chemicals that flake off, stick to, or otherwise damage the product they are supposed to protect.

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## About the Product

**Zerust® Ferrous Bag and Shroud Film** is a cost-effective and versatile barrier against corrosion for ferrous metals.

## Applications

Typical applications for **Zerust® Ferrous Bag and Shroud Film** include storage or shipment of iron and steel components, machined parts, tools, engines, guns and gun parts, and scientific instruments.

## Sizes and Availability

**Zerust® Ferrous Bag and Shroud Film** is available in bags or sheets (either separate or perforated on a roll), as well as rolls of sheeting and tubing. Zerust® Ferrous Bag and Shroud Film can be made to custom sizes (at a minimum order quantity). Please contact our customer service representative for information.

## How to use Zerust® Ferrous Bag and Shroud Film

Simply insert into, wrap, or cover the metal component with **Zerust® Ferrous Bag and Shroud Film**. Make sure to securely close or seal the bag, or wrap the film tightly; this restricts airflow and maximizes corrosion protection. The bag or film can be secured with tape, heat-sealed, stapled, secured with a tie, or secured with a rubber band.

## Physical Data

<b>Appearance, Odor</b>	yellow, transparent polyethylene film. Odorless.			
<b>Specific Gravity</b>	0.92			
<b>Handling</b>	No special handling required.			
<b>Restrictions</b>	Not recommended for direct prolonged exposure to sunlight.			
<b>Sealing</b>	Heat sealable with standard equipment.			
<b>Recommended Sealing Temperature</b>	320°F - 340°F depending upon actual sealing equipment, adjusted for dwell and pressure.			
	<b>6 mil Zerust® Ferrous Film</b>		<b>4 mil Zerust® Ferrous Film</b>	
<b>Physical Properties</b>	<b>MD</b>	<b>TD</b>	<b>MD</b>	<b>TD</b>
<b>Tensile Strength</b>	1300 - 2300 psi	1250 - 2900 psi	1150 - 2400 psi	1250 - 2000 psi
<b>Elongation</b>	750 %	800 %	550 %	750 %
<b>Gauge</b>	0.006" ± 10%		0.004" ± 10%	
<b>Seal Strength</b>	Impulse: 7.6 lbs, Thermal: 8.7 lbs		Impulse: 5.2 lbs, Thermal: 5.0 lbs	
<b>Stability</b>	This Product is stable under normal storage and shipping conditions. Avoid flames, strong oxidizers, or solvents which dissolve polyethylene film.			
<b>Shelf Life and Effectiveness</b>	2 years of estimated shelf life if stored at 85 °F or less. Subsequent in-service life: up to 5 years of corrosion protection under proper packaging, storage and handling conditions.			
<b>Disposal Method</b>	Recycle, incinerate or dispose of in landfill (consult federal, state and local regulations).			

## Important information

Metal objects will be protected for up to 5 years as long as they remain inside of the **Zerust® Ferrous Bag and Shroud Film**. Do not store film in direct sunlight.

Things to remember when using Zerust® products:

- Pack only clean and dry parts.
- Wear gloves to avoid leaving acidic, corrosion causing fingerprints.
- When packing metal parts, the ambient temperature and the part temperature should be the same to prevent condensation from forming inside of the enclosure.
- Make sure the enclosure is tightly sealed in order to restrict airflow.
- Insert additional Zerust® packaging materials with Zerust® Ferrous Bag and Shroud Film to ensure maximum corrosion protection throughout. Zerust® products to use in addition to Ferrous Bag and Shroud Film (where applicable): Zerust® Vapor Capsules, Zerust® Cardboard, Zerust® Plastabs, Zerust® Tube Strips or Zerust® Pipe Strips.
- Avoid the contact of metal parts with Non-Zerust® treated wood, paper or cardboard as these materials contain corrosion causing acids.

We guarantee this product conforms to production specifications and was made in accordance with documented ISO 9001 Quality Procedures. We expressly disclaim responsibility for its use. We make NO WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED, as to the effects of use (including, but not limited to, damage or injury) or the results to be obtained, whether or not used in accordance with the directions. Buyer / user agrees that, if product proves to be defective, Seller's obligation shall be to replace or refund the purchase price of such product at Buyer's option. Seller shall not be liable in tort or contract for any loss or damage, incidental or consequential.

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