



NEW TECH
FILM



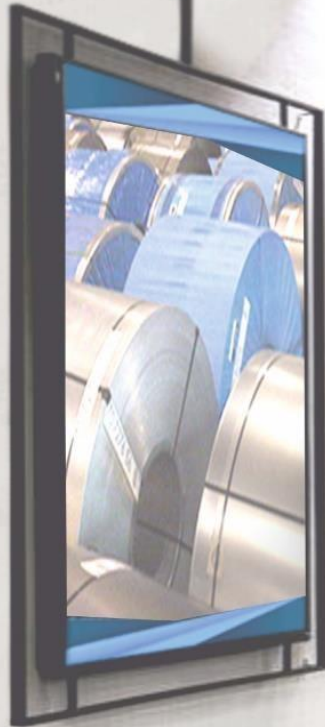
Professional Plastic Film



About us

In today's competitive marketplace, manufacturers of products and packages are under increasing pressure to satisfy varied and often conflicting demands, such as lowering costs. Improving performance and enhancing environmental attributes. Within this arena, the material that a manufacturer chooses to use in its products and packages can affect its ability to remain competitive. Plastic film, in many instances, has allowed manufacturers to meet varied marketplace demands by enabling them to do more with less. Unfortunately, information on this broad category of materials is lacking. With this white paper, the American Plastics Council (APC) hopes to meet this need by providing technical experts and laypersons with a better understanding of what film is, how it is used. How it contributes to resource conservation, and how it can help manufacturers respond to the changing marketplace.





VCI PROTECTION FILM

Product Description

VCI Plastic Film is a PE film that contains a combination of impregnated VCI chemicals designed for Ferrous & Non Ferrous metals (Multimetal) protection against corrosion. Packing your product in VCI film protects metal parts from all types of corrosion including, rust, tarnish, stains, white rust and oxidation for 2 months to 30 years. It protects metals by direct by vapor action. The VCI's vaporize & then settle on the metal surface protecting also difficult to reach areas like drilled holes, crevices, etc. MKC VCI film does not only replaces the conventional rust preventive methods like oils desiccants but eliminates the costs associated with them like degreasing & cleaning. Metals parts packed in VCI film get continuous protection against salt, humidity, condensation, moisture, varying industrial atmosphere & composite metal corrosion.

Material

It is a PE film manufactured with VCI Chemicals having a decade of R&D by corrosion research laboratory.



Features & Benefits

- Specially designed to give MULTIMETAL protection
- Prevents oxidation at contact points of electrical/electronic components
- Transparent film allows users to easily identify & inspect parts without opening package
- Compatible with broad range of commonly used parts, greases, oil seals, rubber parts, etc.
- Air-tight packaging is not a must although it's required to be closed properly
- Heat sealable, allowing auto & manual sealing



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Availability

VCI Shrink Film is available as sheeting, with custom sizes and additives such as UV, and Anti Static.

Recyclable

Dispose of in accordance with local, national and international regulations. Check on option for recycling and incineration.

Safety

Safe for people. This product does not pose a health hazard to users.

VCI Shrink Film

Use VCI Shrink Film for long-term indoor and outdoor storage and mothballing of parts and equipment. MKC indoor and outdoor preservation film provides superior corrosion protection for years even in extreme conditions. VCI Shrink film is a polyethylene shrink film that provides advanced protection to metals with VCI Vapor Corrosion Inhibitor (VCI) technology. It is a premium 4-8 mil, high-strength shrink film that shrinks and conforms tightly around objects when heated to repel moisture and contaminants. VCI saturates the interior of the packaging to protect hard-to-reach spaces and avoid corrosion. VCI Shrink Film provides superior corrosion protection to parts and components within the automotive, electrical, machinery, mechanical and military industries. VCI Shrink Film is available in ferrous, non-ferrous and multimetal corrosion protection formulations.

Benefits

- Improve shipment yield rates
- Reduce corrosion incidents
- Excellent shrink properties
- Easy to use
- Recyclable

Application Type

- Storage
- Shipping
- Works with VCI diffusers

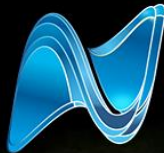
Application Example

Valuable assets are protected from corrosion when stored indoors and outdoors.

VCI Shrink Film allows parts to be ready to use whenever and wherever they are needed.

VCI shrink Specifications

Product Information	Use VCI Shrink Film is a heat responsive durable film that shrinks and forms a durable package.
Appearance	White standard colors based on the corrosion protection formulation. Additional colors available upon request.
Protected Metal Types	Available in ferrous, non-ferrous and multimetal corrosion protection formulations.
Protection Duration	Will protect metals for years if properly packed and stored indoors and outdoors.
Storage	Store in original packaging away from direct sunlight in conditions below 85°F (29 °C) and 50% RH for up to 3 years from the date of shipment.



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Product Description VCI FOIL FILM

VCI Foil film is manufactured using a technical process and structure. The film is manufactured on a 3 layer, multilayer co-extrusion plant combined with a foil barrier layer and a polyester layer. The combined structure offers a very low oxygen and water vapor permeability combined with VCI properties. The film comprises of total 5 layers. During the packaging process vacuuming out is not required, because the inner and middle function as VCI transmitting layers. Outermost layer serves as a barrier layer to control the unidirectional transfer of VCI chemicals as well as provide improved barrier properties to the film. The aluminium outer barrier layer laminated to the 3 Layer VCI Film provides higher strength barrier to the water vapor and oxygen molecules. The VCI molecules work by evaporation and condensation on the cooler metal parts and prevent corrosion wherever they settle. In effect a corrosion inhibiting layer comprising of macro-molecules is deposited on the part. This works by preventing the forward reaction of corrosion by inhibiting electron flow, altering pH as well as by forming a physical barrier to oxygen and water vapor. These bags can be heat sealed using ordinary heat sealing machine or can also be provided with a self-sealable adhesive tape which can be removed to form a sealed packaging system. Due to the advanced VCI Action there is no need to vacuum the packaging as the moisture and air are treated with VCI. VCI Foil film use in development of packaging and packing for lots of products in different industries.





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MKC VCI Woven Film

Product Description

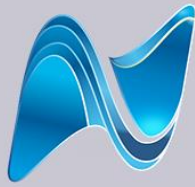
VCI Woven films are especially designed for the steel industry to protect flat & coiled steel, steel wire, and more against corrosion with superior strength and tear resistance. VCI Woven films will provide excellent packaging solution for shipping and storage of large machinery. Our films are laminated with vapor corrosion inhibitor (VCI) polyethylene films to protect ferrous and most non-ferrous metals from corrosion.

CORROSION PROTECTION

The slow release vapor action protects the exterior as well as hard-to-reach interior surfaces. It is self-healing and will provide 12 months of long-term protection for storage and overseas shipments.

METALS PROTECTED

Carbon steels, stainless steels, copper, brass, aluminum, galvanized steel.

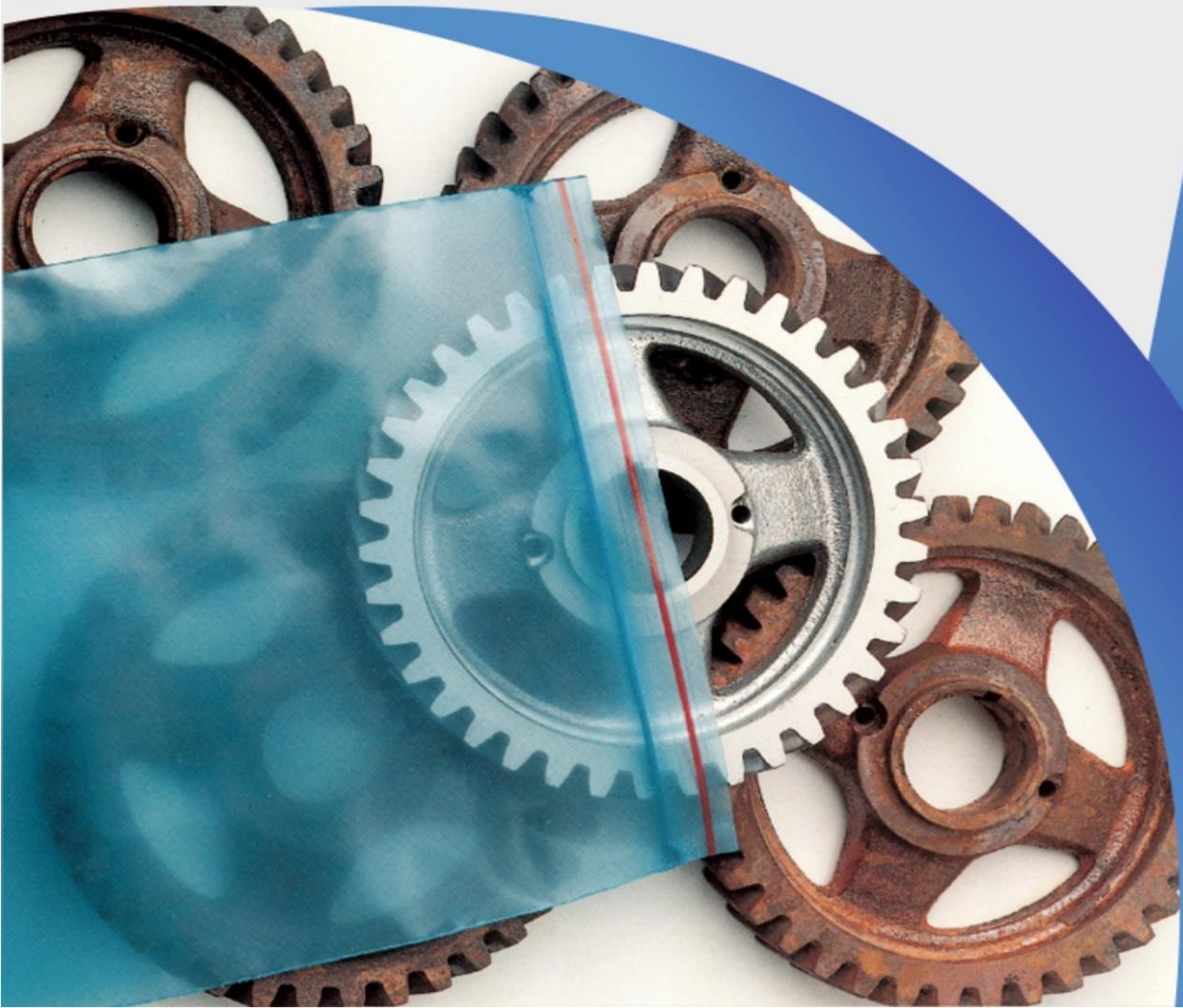


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MKC -BLUE Multimetal VCI Film

BLUE VCI Multimetal Film provides cost-effective and versatile protection against corrosion damage for ferrous and non-ferrous metals in shipping and storage. It is available in various sized rolls and bags. BLUE VCI packaging film diffuses proprietary BLUE VCIs (Vapor Corrosion Inhibitors) to protect metals for years. Use MKC-BLUE VCI Multimetal Film to protect metal components and assemblies and more with multiple metal types from rust and corrosion. Check with your MKC representative for a comprehensive corrosion management solution which is most effective for your metal assets. BLUE VCI film is used to protect valuable metal items for manufacturers in industries such as automotive, agricultural, aerospace, steel and metallurgy, military industry and mining.



Safety

Safe for people. This product does not pose a health hazard to users

LUE VCI chemistry is safe for sensitive electronics. No galvanic effects residues or changes in the properties of metals. The protective molecules dissipate upon opening of package.

Recyclable

Dispose of in accordance with local, national and international regulations. Check on options for recycling and incineration.

Application Type

- Storage
- Shipping

Application Example

BLUE VCI Multimetal Film Bag protects metals in shipping and storage from corrosion.

Availability

MKC -BLUE Film is available in many stock and custom option additive options such as UV and Anti -Static.

Type of VCI film:

- Bag
- Tubing
- Sheeting

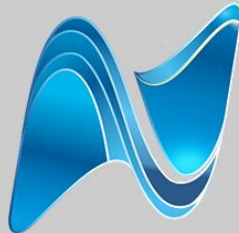
Benefits

- Effective corrosion protection and packaging combined in one step
- Metals are ready for use and assembly directly out of the packaging
- Multiple metal type protection
- Available with ESD protection
- Provides safe* and effective BLUE VCI protection
- Recyclable

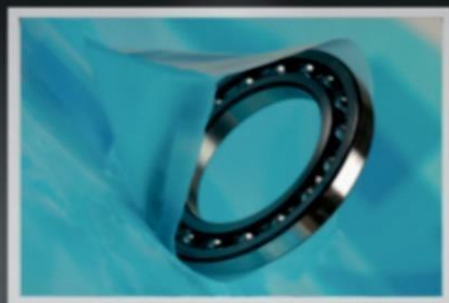


BLUE VCI Specifications

Product Information	MKC BLUE Multimetal Film is a polyethylene product impregnated with vapor corrosion inhibitors.
Protected Metal Types	Best for items containing a combination of ferrous (steel, iron and alloys) and non ferrous (aluminum, copper, brass, bronze and galvanized).
Protection Life	Protect clean metals for years when used correctly and utilized within three years from receipt. Not intended for outdoor use
Storage	Store in original packaging away from direct sunlight in conditions below 85 F (30°C) and 50% RH for up to 3 years from the date of shipment.



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Product description

MKC VCI power stretch films are manufactured using our proprietary speedy moisture passivation (SMP) technology and provides long term corrosion protection to the packaged parts. MKC VCI power stretch films when stretched on metal products isolate the packed coils and sheets from the influx of humidity and the VCI neutralizes the environment inside the package.

The MKC VCI power stretch films contain cross linked polymers to enhance the tensile strength and tear resistance. The cross linked structure prevents tear propagation in the event of a puncture or shear damage. The increase in tensile strength with the up to 3 times higher than convention stretch films.

MKC VCI power stretch films are suitable for ferrous and non ferrous metals and inhibit the onset of corrosion, tarnishing etc , for up to 5 years when used with a complete system designed mkc.

MKC VCI power stretch films are multi layered and made from special proprietary additives that increase the strength between the molecular chain thereby providing a film with a very high tear strength, tensile strength and dart impact. Additionally, the inherent cling properties of the film provide better sealing between overlapped layers during wrapping.

The film is designed to be used for wrapping circular and irregular shaped products with deep and sharp curvatures. The film is compatible to be used with all major automated machines for stretching. The primary use of the film is to wrap steel, galvanized steel or aluminum coils using a through the eye wrapper. And the adoption of advanced MKC additives significantly increases the cocooning effect.

APPLICATIONS

- Steel coils
- Galvanized sheets and coils
- Metal tubes and wires
- Electrical grade steel
- Stainless steel
- Copper and aluminum sheets
- Wrapping metal bodies, engines, turbines, heavy equipment
- Wrapping castings, forgings, sheet metal

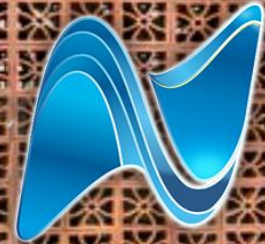
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