



BIOCOR[®] CORROSION PROTECTION FROM NATURE

VCI FILM

BioCor® – the VCI-Revolution

The first corrosion protection from nature

Since 1997, MetPro has developed and produced VCI products using the most innovative corrosion inhibitor technology and high quality packaging materials. BioCor® VCI corrosion inhibitor films are among the most effective solutions for corrosion protection in the metalworking industry. BioCor® VCI films are easy to apply, and are available in a wide range of formats. They can be adjusted to the specific needs of your product, storage and transportation requirements.

MetPro BioCor® is a new generation of VCI film which combines world leading corrosion protection with the highest level of responsibility for occupational health. The vapour corrosion inhibitors integrated into the film consist entirely of natural extracts, redefining toxicological safety in the field of VCI. In addition, the carefully defined dosage meets recycling criteria and promotes optimisation of resources.

BioCor® is the optimum choice for packing clean and dry metal products, without the need for protective oils or greases. Completely safe in any format, the revolutionary BioVCI® in MetPro BioCor® does not need to be removed to allow further processing or assembly of the protected metal component.

Will you find a better VCI film which is safer to use? The added benefit of eliminating any risks to Health and Safety in application has propelled MetPro BioCor® to pole position in the race against corrosion.

BioCor® films are available in the following formats:

- Single wound sheet/Tubing/Centre fold sheeting
- Flat and gusseted bags
- Case liners and covers
- Skin/stretch and shrink film
- Elasticated bags
- Gripseal/zipper and self-adhesive flap bags
- Sealed shapes and special constructions
- Bubble films
- Special constructions to customer specification



MetPro BioCor® availability information:

- Single wound sheet in widths from 50 – 9,000 mm
- Tube widths from 50 – 4,500 mm
- Gusseted bags with a maximum girth of 9,000 mm
- Centre-fold sheet up to maximum 2,000 mm width folded
- Flat bags from minimum 50 x 130 mm
- Film thickness: 25 µm up to 250 µm
- Lower gauge and co-extruded films
- LDPE-versions and special combinations
- High-performance films up to 1,000 g dart-drop

Additional features:

- Single bags or bags perforated on a roll
- Loose sheets or sheets perforated on a roll
- Printing with VCI and PE symbols
- Printing with your own company logo
- Colourless or special colour
- ESD design with antistatic agent



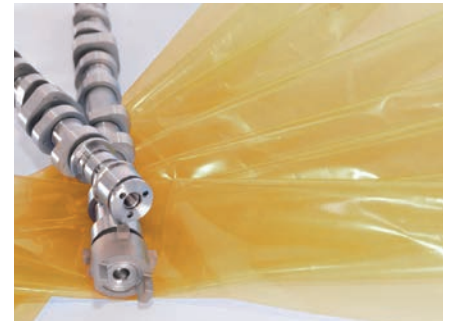
BioCor® and BioCor®-ESD (electrostatic discharge)

High-tech films for reliable corrosion protection

MetPro BioCor® and BioCor®-ESD with antistatic agent are highly technical transparent VCI corrosion inhibitor films based on the most modern BioVCI®-technology. All BioCor® VCI corrosion inhibitor films are TRGS 615 and TRGS 900 compliant.

BioCor® and BioCor®-ESD:

- Transparent – for good visibility of packaged goods
- Heat sealable
- Durable and long-lasting
- Recyclable
- Nitrite and amine free
- Puncture and temperature resistant
- Available in different designs and thicknesses



Product

Application

BioCor®

- Suitable for dry ferrous metal parts
- Usage as full overwrap, contact protection or case liner protecting at distance
- Ideal for steel, galvanized steel, aluminium, copper, brass

BioCor®-ESD

- Suitable for the shipment of electronic parts
- To steering assemblies and other items with electronic components
- Also for mounted and built-in parts, which cannot be electrostatically charged by stacking

All of the above product recommendations should be validated for compatibility with the customers' metal alloy products. Further product variations as well as detailed product data sheets are available upon request.

The MetPro Group product range:

The MetPro Group offers a comprehensive range of VCI products, including but not limited to VCI papers, VCI polypropylene sheeting, and VCI liquids as well as support products such as VCI emitters, foams and desiccants.

Contact one of our colleagues today and find out how we can help protect your products in transit and storage.



BioCor® is approved for direct contact with foodstuffs, as certified by the SGS Fresenius Institute.

BioCor® is completely free of materials restricted under TRGS 900 regulations. Audit testing in the workplace for materials limited by TRGS 615 or TRGS 900 is therefore unnecessary.

VCI protective vapours ensure that your metal product does not disappear into thin air!

Things at rest will rust. Your products might lie at rest for years, in warehouses, in containers, in exhibition halls, on construction sites etc.

Our Technical team has a wealth of experience in corrosion management and control.

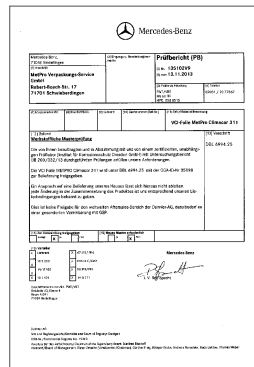
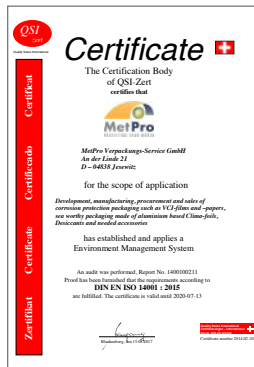
Accelerated corrosion testing is at your disposal. All you have to do is call us!



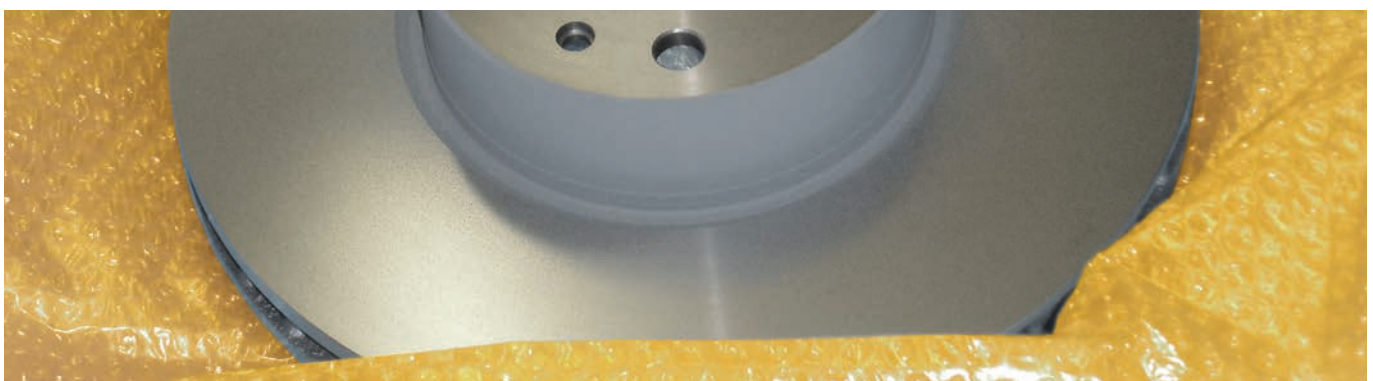
The "mandarin" tinted film is printed with the food safety logo, so that you can show your respect for the wellbeing of both man and metal in the workplace.

MetPro BioCor® VCI Film – all based on BioVCI® technology

Simply safe! VCI-products by MetPro are nitrite-free, amine-free and tested by accredited laboratories. All production facilities are certified according to ISO 9001 and have the ISO 14001 environmental certification.



PROTECTING YOUR WORLD

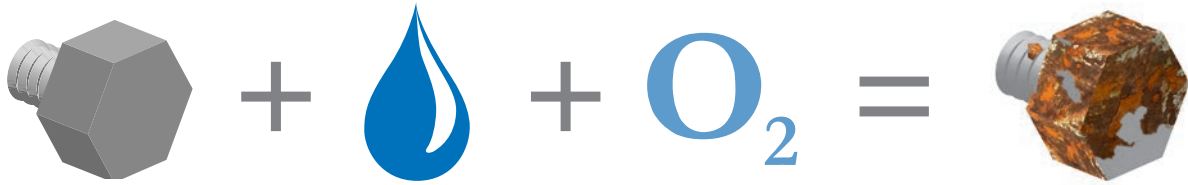


What are VCI corrosion inhibitor films and how do they work?

VCI (Volatile Corrosion Inhibitor) = vapour corrosion protection (from the carrier material)

BioCor® film

is a polyethylene film, which contains a combination of VCI chemicals. It protects metals through direct contact and vapor action during storage and transit. Our BioVCI® is extruded directly into the polyethylene film and not subsequently applied. As a result, the volatile and contact inhibitors provide long-term corrosion protection for the most intricate and inaccessible surfaces.

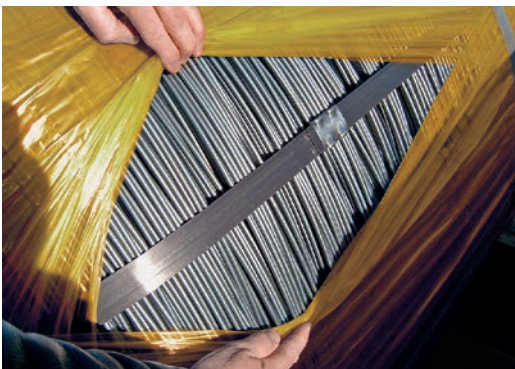


BioCor® VCI Film – all based on BioVCI® technology

Removes the corrosion from the formula by metal surface passivation.

What are the advantages of BioCor® VCI Corrosion Inhibitor films?

- Food contact approved and completely free of materials restricted by TRGS 615 or 900
- Produced using natural ingredients, and completely nitrite and amine free
- Pleasant coconut aroma rather than a sharp, acidic smell
- Achieves top marks in recognised corrosion tests carried out for the Automotive Industry
- Excellent film physical properties – Dart Drop, elongation and sealing strength
- “Mandarin” tinted film available to emphasize the product’s natural credentials
- BioCor® is recognized as a significant innovation by European Professional Associations involved in metalworking because it sets new standards of occupational health and safety for VCI films.



Goods after transport “with” VCI protection



Goods after transport “without” VCI protection

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