

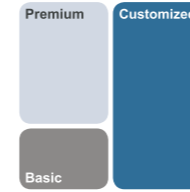
BRANOpac

The ultimate way
in corrosion protection



We protect your products ...
... maintaining the value of good products

The ultimate way in corrosion protection



Application



Would you like to know what we offer?



Sales

America: +1 863 662-5330
Asia Central: +91 972 8880380
Asia East: +86 135 1674 8400
Europe: +49 6404 9142-815
sales@branopac.com

Would you like to know what is possible?



Application

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Asia East: +86 135 1674 8400
Europe: +49 6404 9142-825
application@branopac.com

Would you like to know how it works?



Training

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Would you like to know the cause?



Analytics

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Systematic solutions

Requirements regarding corrosion protection are very specific when it comes to storage and transportation. BRANOpac offers ideal solutions for your metal products – regardless of size, material and climatic conditions.

You will find an overview of all BRANOpac products and further information on corrosion protection online at www.branopac.com or you can talk to us in person.

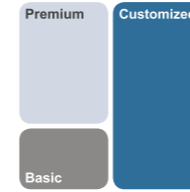
You can reach us at application@branopac.com

Our know-how

BRANOpac has decades of experience in developing and manufacturing temporary corrosion protection products. With our global network of sales partners, you can rest assured that you will receive the quick and professional assistance you require to solve your corrosion protection problems throughout your production process.

BRANOpac – your partner for corrosion protection

We protect your products maintaining the value of good products

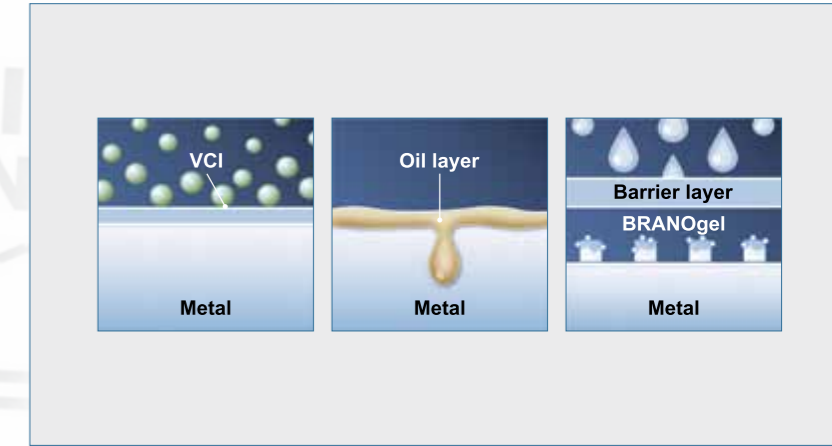
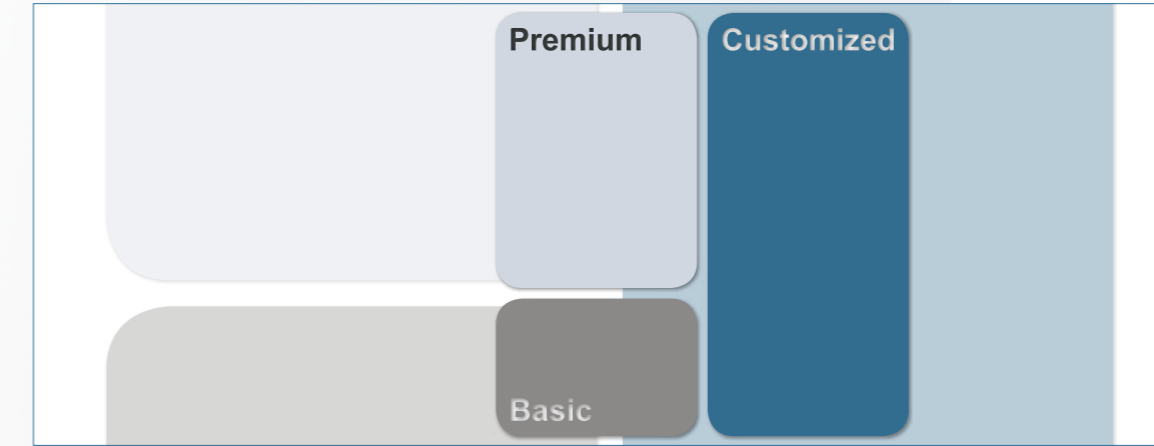
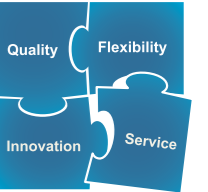


Safeguard your products with BRANOpac

Our technologies have been developed to create corrosion protection solutions that are more than a match for the toughest conditions. Whether as plastic film, aluminium composite, liquid or paper-based form, BRANOpac products are synonymous with perfect performance, offering the best possible protection for high-quality metal products.

BRANOpac has set new standards, particularly with its paper- and cellulose-based products. Its BRANOrust corrosion protection paper is one of the best in the world, having proven its worth millions of times. The VCI-emitting, cellulose-based **BRANOrust chips** (VCI vaporizer for packaging or cavities) are also totally unique, providing “dry” corrosion protection under even the most challenging conditions in conjunction with **BRANOfol**, BRANOpac’s VCI films.

Solution



Customized solutions – exactly as you need them

The best products and a wider range of services are offered in the **Premium** segment.

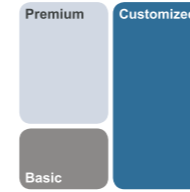
The **Customized** segment contains BRANOpac’s individual solution systems for a broad cross-section of customer-specific requirements.

The **Basic** segment consists of products and services for simple and basic applications.

Three methods for protecting your valuable metal parts against corrosion

- **VCI method (Volatile Corrosion Inhibitor):** VCI forms a layer of protection on metal surfaces and displaces moisture. It repairs the passive layer and neutralizes the pH value.
- **Coating method:** The metals are coated with an oil or wax film that may contain additional corrosion inhibitors.
- **Desiccant method:** Absorbing moisture in the packaging through desiccants and preventing additional moisture from entering by means of barrier layer materials.

VCI papers from BRANOpac



Product selection BRANOcCell



High-performance VCI papers for all requirements

BRANOpac's corrosion protection papers are high-quality virgin kraft papers that have been fully impregnated with VCI inhibitors. During transportation and storage, BRANOpac VCIs offer effective protection against corrosion, both when in contact with the metal parts or at a distance. **BRANOrrost** corrosion protection papers constantly emit VCI inhibitors within packaging until the corrosion protection atmosphere has been created in full. This protects metal parts effectively from corrosion during transportation and storage.

BRANOrrost R and **FERROGARD** have been developed for protecting ferrous metals, steel and cast iron (when in contact with the goods or at a distance). They also offer reliable protection against corrosion for chrome, tin and pure aluminium.

BRANOrrost U and **MULTIguard** have been optimised for protecting ferrous metals, steel and non-ferrous metals such as zinc, chrome, copper, brass, bronze, pure aluminium and tin. They also offer reliable protection for cast iron when in direct contact.

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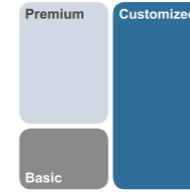
Premium: BRANOrrost

For some 50 years, **BRANOrrost** has been recognised as the leading corrosion protection paper in the market for temporary corrosion protection, where it has proven itself time and again. The products' quality and reliability are based on many years of experience in production processes and development know-how. The global service that is closely associated with the **BRANOrrost** brand – including analysis, consultation and training – is really one of its kind on the market.

Basic: FERROGARD/MULTIguard

For times when a sophisticated solution like **BRANOrrost** is not necessary, our basic papers **FERROGARD** and **MULTIguard** offer optimum protection for intermediate storage or shipment in moderately demanding conditions over short periods of time.

VCI films from BRANOpac



High-performance VCI films for any purpose

BRANOpac's VCI films marketed under the **BRANOfol** brand offer outstanding corrosion protection for your products. As metal parts no longer need to be oiled before packaging, they are ready for use as soon as they are unpacked.

Thanks to their transparency, VCI films are ideal for exports as it is no longer necessary to open packaging, in

order to conduct a spot check in customs – thus ensuring that VCI protection is maintained throughout. The entire manufacturing process for **BRANOfol** products is monitored using the strictest testing criteria in our own development laboratory. We use state-of-the-art analytical methods, from formulation and master batch production to the final inspection of the finished film – all with the ultimate goal of protecting your products.

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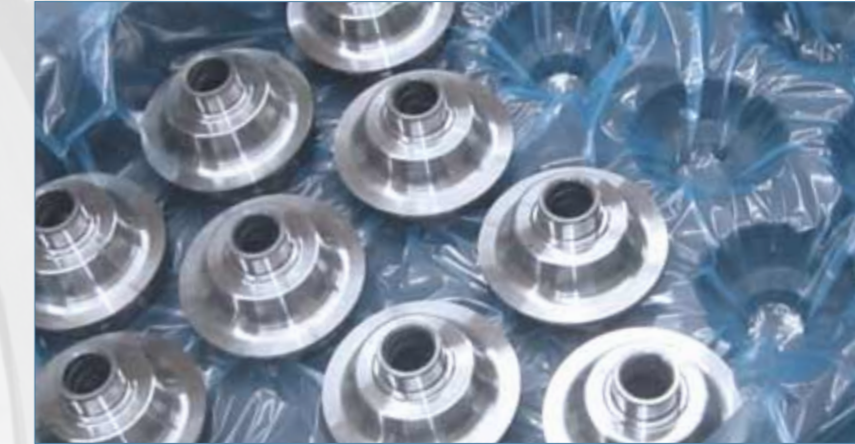
Product selection BRANOpac



Premium: For demanding applications

BRANOfol VCI films have been developed and continuously optimised by BRANOpac and offer outstanding protection against corrosion. Depending on requirements, the premium films have a wealth of additional properties: extremely tear-resistant, shrinkable, anti-static, electrically conductive, flame-retardant, cross-laminated, UV-stabilized and more.

Many of the properties listed can also be offered in combination.

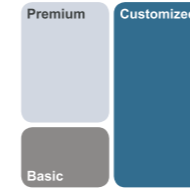


Basic: For basic applications

VCI films produced in BRANOpac's proven Basic quality are effective not only when they are in contact with the goods, but also at a distance, providing reliable protection against rust.

Also, being waterproof and weldable, they are ideal for automatic packaging and for bag production.

BRANOpac products and services



The Coating

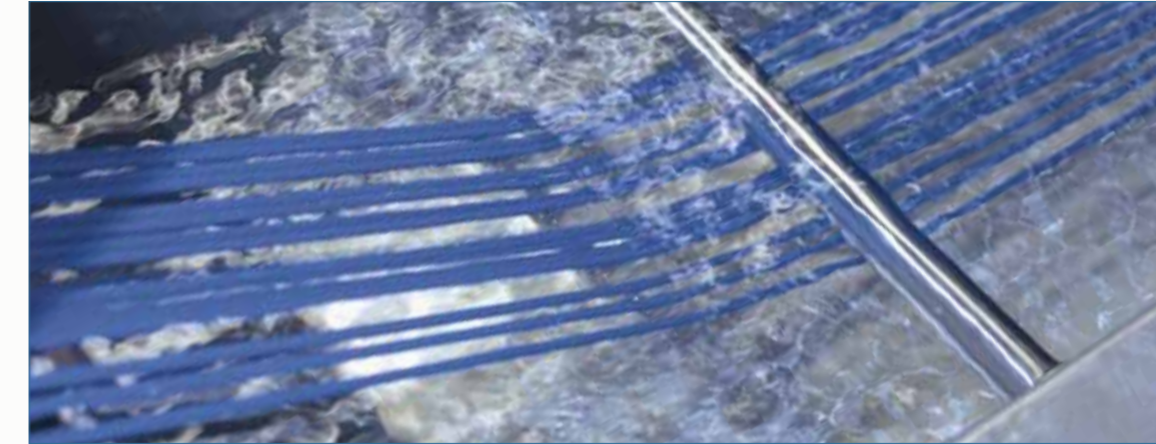
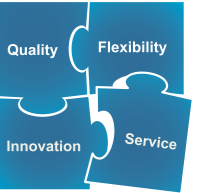
Since 1961, BRANOpac's high-quality corrosion protection products have been made exclusively in Germany using machines developed specially for this purpose. Thanks to continuous process optimization, BRANOpac now has production facilities that are state-of-the-art and ideal for VCI products. These facilities are suitable for coating not only papers, but also films, nonwovens and many other materials with aqueous and solvent-based systems. We can also provide printed products based on your exact specifications.

Customized solutions for your products

BRANOpac will find the ideal solution for you and your products – in line with your with your specific requirements. Here are some of the services that can be customised to suit your precise needs:

- Coating type
- Base material
- Coating thickness
- Delivery options
- Packaging shapes
- Contract processing
- ... And many other possibilities

Manufacturer



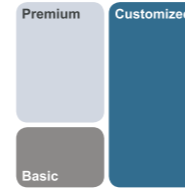
The Extrusion

BRANOfol VCI corrosion protection films have long been amongst the most successful in the market. BRANOpac produces the master batches required for these films in its own compounding systems using a specific and proven gentle manufacturing process. Also, these facilities can be used by customers for the contract extrusion of temperature-sensitive polymers – either according to the customer's specifications or using formulations developed jointly with the customer.

Equipment and facilities

Thanks to our investment in highly flexible cutting machines for papers of all kinds, we can provide you with materials cut to practically any shape and size – from XXL sheets and postage stamp-sized pieces to reels and narrow rolls. BRANOpac optimizes your corrosion protection by providing you with the best possible format for your needs.

Additional products for corrosion protection



More corrosion protection products at a glance

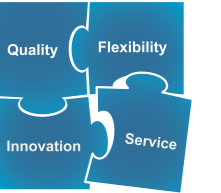
BRANOpac's innovative use of its proven technologies and extensive product range allows it to offer you a spectrum of ways in which to protect your products reliably against corrosion, whether in the form of VCI vaporizers, VCI emitters, barrier layer materials, hollow cross-section plates or liquids.

BRANOpac has the know-how and extensive product range necessary to serve the specific needs of each

customer. Drawing on a wealth of experience garnered from a wide range of projects and consultations, the company's teams of experts will be able to respond to your requirements and offer reliable, results-driven solutions for effective and cost-effective results. In addition, BRANOpac's research and development team is constantly working on innovations, safeguarding the customary high standards of our products while continuously striving for improvements.

You can reach us at sales@branopac.com

... even more possibilities



Additional VCI products by BRANOpac

BRANORost Chips are made of cellulose, cut or stamped into various sizes, and impregnated with premium VCI formulations from BRANOpac. These chips are inserted or suspended in packages or cavities with closed outer walls to serve as a depot of VCIs.

BRANOWave is a hollow cross-section plate made of polypropylene with active agents on both sides – for active VCI corrosion protection. In spite of their lightweight design, VCI hollow cross-section plates are extremely sturdy and resistant to tears, shocks, wear and breakage.

BRANObOX is a VCI corrosion protection emitter that is head and shoulders above earlier models when it comes to efficiency and effectiveness. The break-proof plastic box contains a specially developed VCI pleat for fast corrosion protection with a long-lasting protection effect.

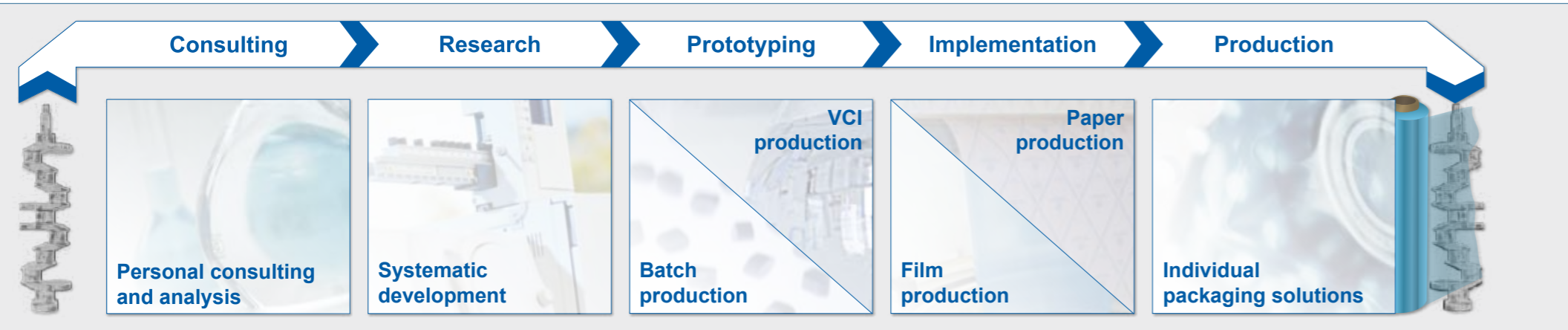
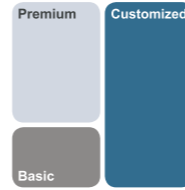


Further BRANOpac corrosion protection products

BRANOpac Aluminium Composite Films offer excellent tear-resistance and bursting-strength values for a wide range of requirements and are designed to offer long-term protection for your products for up to ten years.

BRANOfuids are liquid corrosion protection agents that are suitable for use in process and washing media as well as being highly effective in sealing hollow sections and as a surface protection film. Here, traces of moisture on the metal surfaces are displaced.

Value chain from a single source – clean and safe all the way to the destination



The value chain

Protecting your products is the focus of everything BRANOPac does. Accordingly, our experts will accompany you at every step of the way through your value chain.

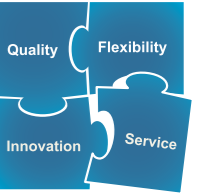
With BRANOPac's systematic solutions, you not only receive help analysing the problem but products will also be developed and produced in line with your specific requirements: your product for your application.

Analysis and development

BRANOPac has its own state-of-the-art and highly innovative laboratory for research and analysis. Thanks to our advanced testing equipment, we are able to ensure the quality of our products while also professionally investigating specific corrosion incidents in order to develop customized solutions. Our chemists and laboratory technicians will be happy to assist and advise you. All services are available not only to customers who purchase BRANOPac's corrosion protection products, but also to others who wish to purchase these services separately from our BRANOScience business unit.

You can reach us at analytics@branopac.com

Training and analysis



Training in VCI corrosion protection

With the aid of experienced BRANOPac specialists, you can boost your know-how in the area of VCI corrosion protection. Here, you can learn how to protect your high-quality products using theory and practical applications.

All training can be provided on location at your premises or in our training facility in Lich. We provide anything from one-hour briefings to whole-day events, depending on subject matter and customer requirements.

BRANOPac offers systematic solutions that protect the value of your products.

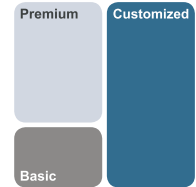
You can reach us at training@branopac.com

Top-level analyses

Thanks to its combination of innovative technologies and decades of expertise, BRANOPac is able to guarantee its customers top-quality optimization of all relevant work processes. From precision analysis to customized and reliable recommendations for ensuring the best possible corrosion protection for your work pieces.

Using state-of-the-art analytical equipment in our own competence centre and developing individually tailored corrosion protection solutions, BRANOPac delivers uncompromising reliability at the very highest level.

Worldwide



At your service worldwide

What makes the BRANOpac competence centres around the world so unique is the incomparable service that they provide, ranging from expert advice to manufacturing and packaging. With BRANOpac, you receive not only a product but a complete service package, worldwide support and innovative consulting services, all of which are designed to ensure that your valuable products reach their destination safely and in perfect condition.



Branopac
Solutions with System

BRANOpac worldwide:
Lich, Germany
Ningbo (Beilun), China
Paris (Les Ulis), France
Milan (Sedriano), Italy
New Delhi (Sonepat), India
Orlando (Auburndale), USA

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