



DEWE BRÜNOFIX

FABRIK FÜR METALLCHEMIE

■ Member of **WEISS Unternehmensgruppe.**

**Tailor-made
surfaces**



Chemical surface treatment

Black oxidation · Phosphate treatment · Blackening of stainless steel
Container & plant construction · Chemical engineering

Our direct hotline is +49 9122 98 68-0
Stay well informed at www.bruenofix.de

DEWE Brünofix GmbH

Germany · Bavaria · Rednitzhembach

DEWE Brünofix GmbH

Pruppacher Weg 8
91126 Rednitzhembach
Germany

Phone +49 9122 98 68-0

Fax +49 9122 98 68-30

Email info@bruenofix.de

Web www.bruenofix.de

Quality and customer satisfaction



Our company philosophy is primarily based on these two pillars. The name of DEWE Brünofix has stood for black oxidation and phosphate treatment like no other for more than 100 years. We can only sustain this long tradition of surface treatment through consistent quality and the satisfaction of our customers.

Specialist for surfaces

We are a highly specialised company in the field of chemical metal surface treatment. Our product range covers more than 300 products around the processes of degreasing, pickling, black oxidising, phosphate treatment, corrosion protection and colourants for stainless steel, brass, copper, nickel silver and die-cast zinc.

More than 100 years of experience

Our skills and our services are focussed in the fields of chemistry, plant construction, disposal and surface treatment. In these areas, our customers benefit from our know-how and the merits of only needing one contact person for all problems – and ultimately from more than 100 years of experience in the field of chemical surface treatment.

Quality and customer satisfaction in combination with experience and progress are the primary building blocks of our success. They also form the foundation for further development of our more than 100 years of history.

*Ralf Schmidt
Managing Partner*

Experience and progress



Our company cherishes more than 100 years of tradition in the treatment of surfaces. Today we produce for our customers worldwide in Rednitzhembach, to the south of Nuremberg.



Brünofix was founded in Leipzig in 1905. While originally only chemicals for the black oxidation process were manufactured and distributed, the range of services was soon extended to the manufacturing of containers and production of chemicals for the black oxidation process.

Plant fabricator with the latest technology

After the end of the Second World War, the company's headquarters moved first to Nuremberg and later to Rednitzhembach 20 km away. Since the 70s, DEWE Brünofix has supplied complete plants with the latest technology for chemical surface treatment and, in addition, offers black oxidation, phosphate treatment and surface treatment procedures in its own three fully automated treatment plants.

Comprehensive product range

Today, the product range covers more than 300 products around the processes of degreasing, pickling, black oxidising, phosphate treatment, corrosion protection and colourants for stainless steel, brass, copper, nickel silver and die-cast zinc. DEWE Brünofix celebrated its 100th anniversary in July 2005. Soon we will write the next chapter of our company history, namely its founding 110 years ago.

Skills and proficiencies



DEWE Brünofix looks after you around our products and for all questions of a chemical and technical nature. We establish our products and procedures at you premises and train your personnel in dealing with hazardous materials, baths, bath analyses and maintenance as well as plant operation.

Problems and solutions

From degreasing through to preservation, we offer the full spectrum of chemical processes. Thanks to our optimised warehousing, we guarantee a short delivery time of a maximum of two days! Whether spare parts, individual containers or complete plants, DEWE Brünofix is your complete supplier. We can also make the required technology available to you as a cost-effective second-hand version upon request.

In particularly urgent cases, our 24-hour service naturally also has a suitable solution prepared for your emergency.

Disposal

We also support you comprehensively in the disposal of the chemicals required for surface treatment. We organise the transportation and disposal of the remnants from your black oxidation and phosphate treatment baths containing dangerous substances. Environmentally friendly, lawful and cost-effective disposal is guaranteed thanks to our collaboration with specialist companies in the waste disposal industry.





Our services

Degreasing/pickling

Brünofix „Alkalit“ products

Degreasing for the removal of oils, emulsions, drawing greases and polish residues. From gentle cleaning through to highly alkaline concentrated degreasing agents.

Simple handling: base and supplement possible with just one product.

Flexible: for hot and cold processes, liquid or in powder form, suitable for ferrous and non-ferrous metals.

Use: spraying, immersion, ultrasound

Brünofix „Rostalit“ products

Pickling for the removal of rust, scale and drawing agents. Special pickling agents based on hydrochloric acid, sulphuric acid, phosphoric acid and mixed pickling fluids. Complete pickling agents, i.e. the products already contain surfactants and inhibitors.

Use: immersion



Black oxidation/dyeing

Brünofix „Brün“ products

Black oxidation salts for the black oxidation of ferrous and casting materials for visual and corrosion protection purposes in 1, 2 or 3-step procedures, suitable for machine parts, tools, standard parts and weapons technology.

Brünofix „Färbe“ products

Special salts and solutions for the chemical blackening of stainless steel, brass and copper, zinc die-casting alloys and nickel silver.

Corrosion protection

Brünofix fluid – water displacer

Ready-to-use products, mostly without fire hazard categories. Washable, giving a very long lifetime. Matt surfaces which can be painted over or oily, shiny surfaces. Thin surface film with excellent corrosion protection properties, ideal for black oxidated or blank metal surfaces.

Our services

Corrosion protection

Brünofix passivations – temporary corrosion protection

For matt surfaces for subsequent coatings (lacquering, powder-coating, etc.) with short-term corrosion protection

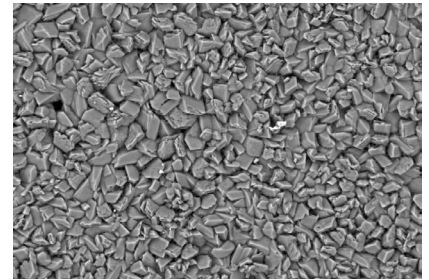
Brünofix emulsion – rust protection

Variable surface film, depending on concentration, with excellent corrosion protection properties. Matt to slightly shiny surfaces. Best suited for use on phosphated and blank metal surfaces.

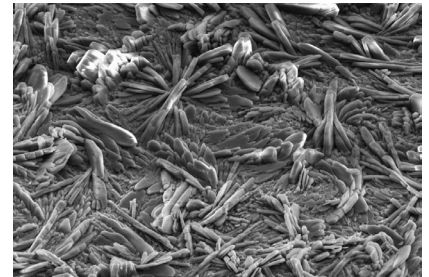
Phosphating

Brünofix „Phosphata“ products

Zinc, zinc calcium and manganese phosphating agents, thin layer for cold forming, for precision parts, as an adhesion primer for coatings and for improvement of sliding properties. Thick layer as corrosion protection with high abrasion resistance. As a dark layer for the possible substitution of black oxidated layers. Used in spraying and immersion procedures.



Structure of a manganese phosphating under extreme magnification.



Structure of a zinc phosphating under extreme magnification.

Surface treatments for commission orders

Type of surface treatment	Standards	Maximum dimensions of the workpieces in mm		
		Length	Width	Height
Zinc phosphating	DIN EN 12 476:2001	1800	320	500
Manganese phosphating	DIN EN 12 476:2001	1800	320	500
Black oxidation (steel and iron)	DIN EN 50 938:2000	1800	320	500
		2800	400	600
Stainless steel blackening		1800	320	500
Brass blackening		480	200	300
Corrosion resistance testing	DIN EN ISO 9227	75	55	45
	DIN EN ISO 6270-2			
Tempering	ISO 9587/ISO 9588	850	850	1340

A phone consultation is required prior to processing of workpieces of larger dimensions. If desired, you can receive the initial sample test reports and acceptance test certificates according to DIN EN 10 204-3.1.B.

Plants and containers

Individual containers

Whether heated or unheated, isolated or single-walled, stainless steel or lacquered, with integrated control unit or for connection to a control panel – DEWE Brünofix containers come in almost any size and variation. Our supply programme also includes accessories such as extraction units, oil separators, baskets of goods, etc.

Compact plants

Ideal for processing small quantities (up to 500 kg per day) cost-effectively on your own premises. All components (incl. exhaust air extraction and cleaning and control box) are integrated into a stainless steel frame in order to guarantee quick and easy installation/start-up as well as a good lasting visual impression. The compact plant covers all the functions and safety features of a „large“ plant in a small space.

Surface treatment plants with manual or crane-assisted feeding

The widespread plants for the black oxidation, phosphating and dyeing chemical processes (stainless steel, brass and copper) consist of individual containers with a common control cabinet and exhaust air system with exhaust air cleaning with or without a crane.

Plants with fully automated transportation systems

The use of a plant with a fully automated transportation system may be of interest for a high throughput of goods or if reproducible and documentable production processes are required. We offer this type of plants both with simple sequence control and with master computer supported mix program control.