

Clad Materials

Best of metal

Wickeder Westfalenstahl GmbH headquartered in Wickede (Ruhr) is specialist for clad materials. Clad materials are intelligent combinations of two or more materials that are bonded together under high pressure - to produce unique properties that cannot meet a single material.

Since its founding in 1913 the company has strengthened its market position through continuous product and technology innovations that are developed in-house technical center. Wickeder Westfalenstahl GmbH is mother company of Wickeder Group.

Clad Materials - Do What You Thought You Couldn't!

Intelligent solutions for your products & applications

Through the clever combination of different metals, it is possible to create any number of properties that one metal alone can not. The variety of Clad Designs of Wicked Westfalenstahl is the most unique in the world.

Do you want your products to be made precise, durable and out of the highest quality? Then you should use the best metals and semi-finished products to provide the best solutions for your customers.

Clad materials consist of at least two different metallic strips that are „rolled together“ under high pressure in the rolling mill. To improve the adhesion between the individual layers, up to inseparability, a subsequent heat treatment is used. Further steps, as rolling, annealing and temper rolling ensure that we can supply our sheets in the annealed, rolled and in the coldworked condition with a defined stability strength.

We can manufacture, depending on the material combination, up to widths of 800 mm for you. Compared to other coating processes, an advantage of clad materials is the variation of the layer thickness ratios. The individual layers can vary between two and 98 percent.

// Benefits

- › Improved or new properties, depending on the materials
- › Individual composite structure
- › Specific Product Solutions
- › Widths up to 800 mm (depending on material)
- › Layer thickness 2 - 98%





Exciting New World of Possibilities

**New solutions -
for the demands of tomorrow**

Clad materials can be found almost everywhere. They are used in everyday products such as in cars, electric circuits, cooking pots household appliances, batteries, coins, lamps and more.

The product range of clad materials from Wickeder Westfalenstahl is as diverse as your specific requirements. No other company offers such a large dimensional range and material spectrum.

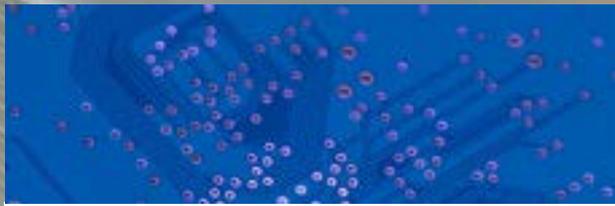
As flexible as a set of building blocks

As layer materials, often particular metals or alloys as copper, nickel, brass, bronze, or aluminum and nickel are used. Like in a modular system,

the material properties can be combined in such a way, that a product is created, which entirely meets new functions. According to your wishes and requirements.

Customer-oriented consulting

We will work closely with you to find a solution to any challenges you are facing, because, well, we love a good challenge.



Electro Industry



Electric contacts made out of Aluminum-Copper



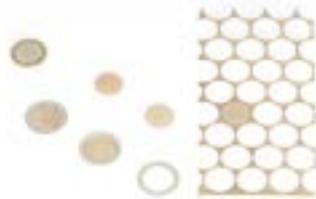
Appliances



Brush holder made out of Yellow Brass-Steel



Coins



1 € & 2 €-Coins made out of CuNi25-Nickel-CuNi25 /CUZN25Si



Warmth & Energy



DACC made out of Aluminum-Steel



Automotive



Heat Shields made out of Aluminum-Steel



Construction & Architecture



Flue pipes or roof rails made out of Copper -Stainless Steel - Copper

Individual Material Mix

Innovative Clad Designs

	LC-Steel	C-Steel	High-strength Steel	Stainless Steel, ferritic	Stainless Steel, austenitic	Ni-based Grades	Aluminum	Copper	Yellow brass	Bronze	Tin	Nickel	Silver	Titanium	Magnesium	CuNi	FeNi	FeMnNi, FeMnCr	Niob	Tantalum	
LC-Steel	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
C-Steel	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
High-strength Steel	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Stainless Steel, ferritic	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Stainless Steel, austenitic	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Ni-based Grades	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Aluminum	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Copper	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Yellow brass	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Bronze	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Tin	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Nickel	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Silver	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Titanium	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Magnesium	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
CuNi	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
FeNi	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
FeMnNi, FeMnCr	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Niob	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Tantalum	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard

Please ask for further material combinations, dimensions and conditions



Standard



producible



producible with restrictions

Our Cladding Designs



Overlay



Inlay / Edgelay



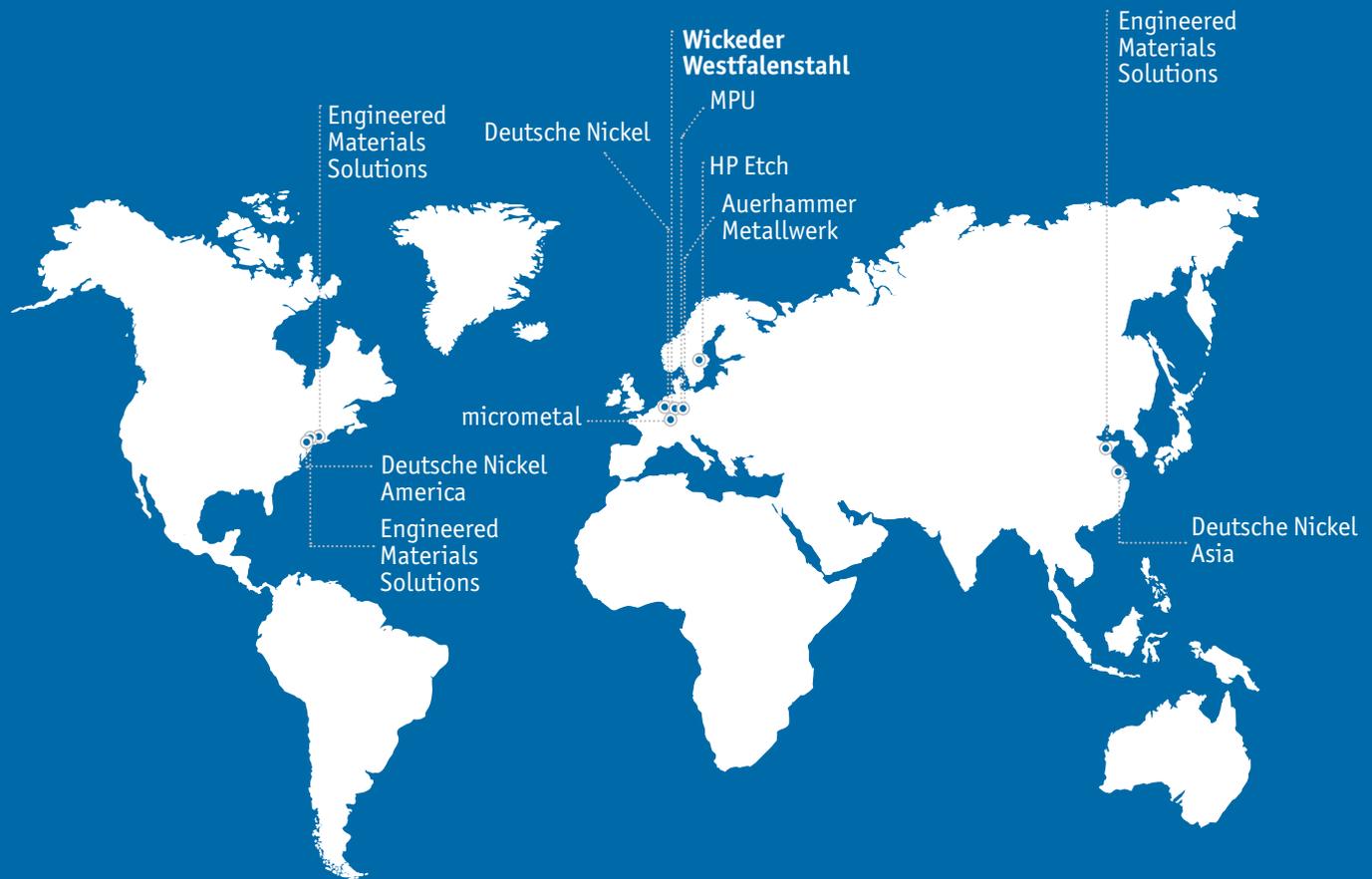
Corelay



S2S

Best of metal.

The metal specialists of the Wicked Group have combined their strengths to offer you the best of metal. On three continents, Europe, America and Asia, there is a wide range of standard and customised solutions available. Through our product and service-oriented business model, it is possible to provide the highest quality standards, flexibility and fast reaction times. Ultra-modern production lines, professional knowledge and innovative solutions have all helped to ensure the success of the Wicked Group.



// Portfolio of Wicked Westfalenstahl:

- > Clad Materials
- > Toll-work

// Portfolio of Wicked Group :

- > Clad Materials
- > Thermostatic Bimetals
- > Metal Strips & Metallic Foils
- > Bars & Wires
- > Precision-etched Micro Components
- > Toll Working
- > Waterjet Cutting / Centrifuges and Screens
- > Punching, Bending, Welding



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