

Metal Strips & Metal Foils



**Auerhammer
Metallwerk**

Wickeder Group

Your expert for special alloys

For more than 500 years, Auerhammer Metallwerk has specialised in the industrial processing of metals. The company is situated in the small town of Aue in the Erzgebirge region of Germany and is therefore located in the heart of Europe.

With experience dating back to the world's first large-scale production of nickel more than 200 years ago, Auerhammer Metallwerk today manufactures a wide range of cold-rolled metal strips in a variety of special alloys within the thickness range of 0.002 mm to 2.5 mm.

Furthermore, Auerhammer Metallwerk is a renowned manufacturer of cold-clad strip in various combinations of special alloys.

Highest Standards... ...Finest Tolerances!

Special alloys of the highest quality

Strip and foil in special alloys are necessary when the product requirements demand something extraordinary.

For example, Nickel and Nickel-based alloys can exhibit magnetic properties, controlled thermal expansion, temperature resistance or be effectively employed in various corrosive media.

Auerhammer Metallwerk manufactures a wide range of high performance alloys and is able to offer a solution to nearly any customer request, due to the in-Group melting facility.

We can supply thicknesses from 0.002 mm to 2.5 mm in our cold-rolling mills and can offer tolerances as tight as 0.001 mm. Our width range is from 3 mm to 320 mm. Please contact us for further details.

Auerhammer Metallwerk – we can make it!

// Benefits

- › FeNi alloys: defined soft-magnetic properties or controlled thermal expansion
- › NiCr, NiCrFe and NiMoCr alloys: heat and corrosion resistance
- › NiCu alloys: low magnetic permeability and excellent corrosion resistance
- › Nickel: excellent electrical conductivity
- › Welding consumables: chemical analysis developed to be compatible with the welding process
- › CuNi alloys: good corrosion resistance, adjustable electrical resistance

Maximum success for your application

New solutions -
for the demands of tomorrow



Electrical

Cable Shielding,
High voltage insulators



Automotive

Spark plugs



Medical

Glass and ceramic to metal sealing for X-Ray
equipment



Heating & Energy

FeNi alloys for solar energy technology

Today's integrated markets demand both a wide range of products as well as a high level of service. Auerhammer Metallwerk's metal strips and foils can be used in a wide range of applications and are produced in accordance with your requirements.

Metal Strips

Auerhammer Metallwerk's portfolio of metal strip products comprises soft-magnetic Iron-Nickel alloys, glass to metal or ceramic sealing / controlled expansion alloys, pure Nickel, Nickel-Chrome alloys, Nickel-Copper alloys, Copper-Nickel alloys and Nickel-Manganese alloys.

Soft-magnetic Iron-Nickel alloys for example are used in EMF shielding applications; Nickel and Copper alloys are primarily used in electrical applications; controlled expansion sealing alloys are generally used to produce stamped, etched or deep-drawn parts.

Metal Foils

Auerhammer Metallwerk produces metal foils in accordance with bespoke customer requirements. Foil can be produced in soft-magnetic alloys, pure metals such as Nickel, Copper, Titanium and Silver, as well as various other alloys and stainless steels.

Stainless steel foil can be used in the manufacture of precision gauge tapes, vocal membranes, springs and spacers in sealed UPVC window units. Nickel foil is used in bursting disks and medical technology. Soft-magnetic foil is used in EMF cable shielding and capacitors, as well as parts for hearing aids.

Metal Strips & Metal Foils

Alloying elements		Characteristics	Designation	
Nickel	pure	specific electrical resistance corrosion resistance	Ni 99.6	2.4060
			LC-Ni 99.6	2.4061
			Ni 99.2	2.4066
			LC-Ni 99	2.4068
+ Iron	sealing and controlled expansion alloys	linear coefficient of thermal expansion	FeNi36	1.3912
		
			FeNi51	2.4478
	soft-magnetic iron-nickel alloys	low coercivity high permeability	FeNi29Co18Mn	1.3981
			FeNi36	1.3911
			FeNi48	1.3927
+ Copper	Copper-Nickel alloys	specific electrical resistance	FeNi80mo	2.4545
		
	Nickel-Copper alloys	corrosion resistance	CuNi8	
			...	
			CuNi44	
+ Chrome & iron	Nickel-Chrome alloys	heat and corrosion resistance	NiCu30Al	
			NiCu30Fe	
			NiCu45	
			...	
+ ...	special alloys	welding consumables according to DIN EN ISO 18274 / AWS 5.14 alternative chemical analyses as per customer requirements	NiCr15Fe	2.4816
			NiCr23Fe	2.4851
			NiCr9	2.4870
			
			Ni6082/Ni6625 Ni2061/Ni4060 CoFe6Ni3	
			NiMn alloys	NiMn2Cr

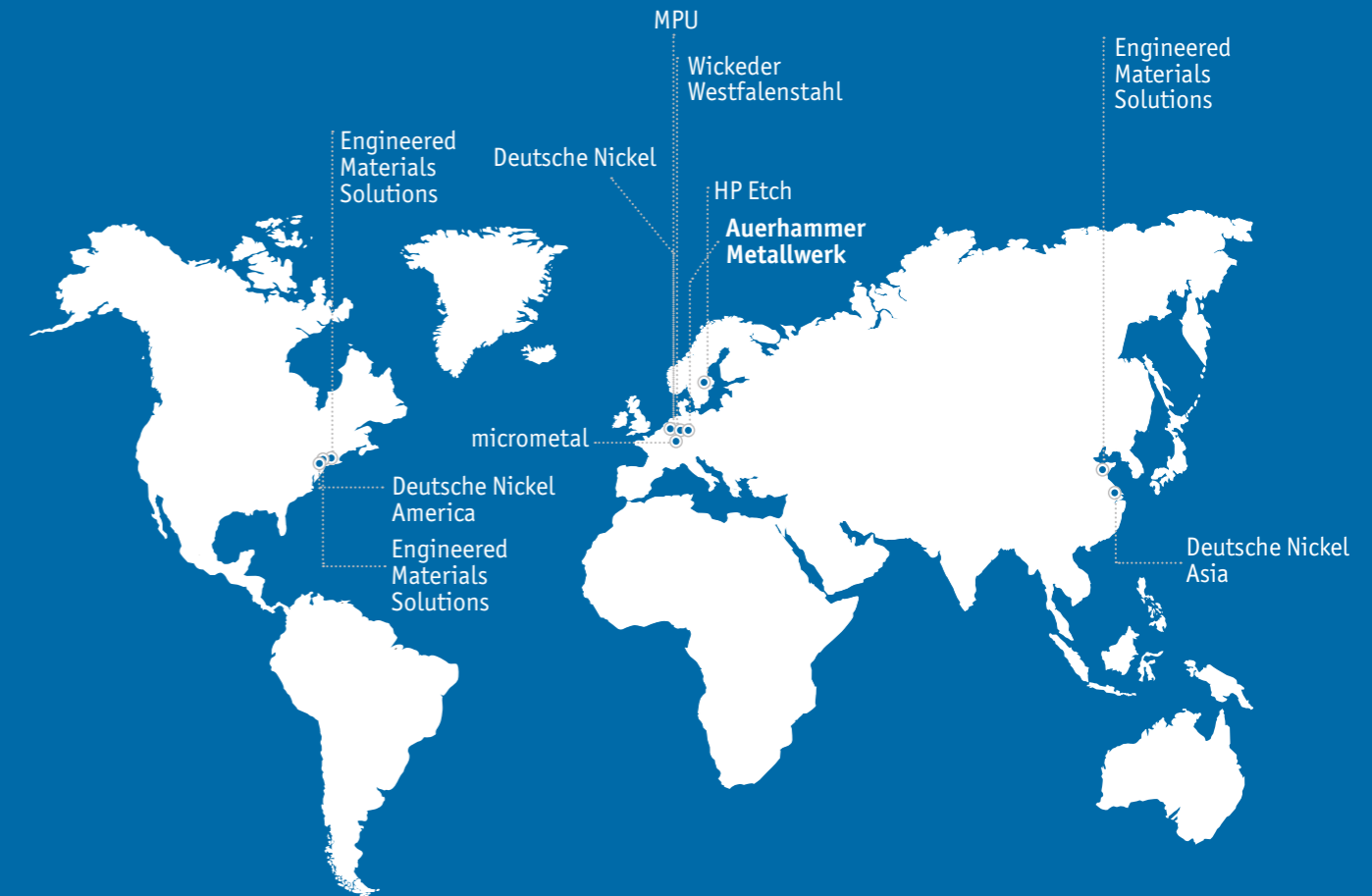
Size range Strips	Size range Foils
Thickness: 0.1 - 2.5 mm Width: 3.0 - 320 mm	Thickness: 0.002 - 0.10 mm Width: 1.0 - 105.0 mm
Foil is considered to be < 0.1 mm thick	

Additional dimensions available on request.



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.



// Auerhammer Portfolio

- > Clad Strip
- > Thermostatic Bimetals
- > Sealing and Expansion Alloys
- > Soft-Magnetic Alloys
- > Coinage Strip
- > Temperature and Corrosion Resistant Alloys
- > Welding Alloys
- > Metal Foils

// 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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