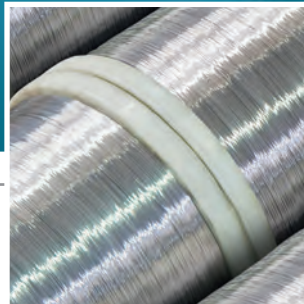
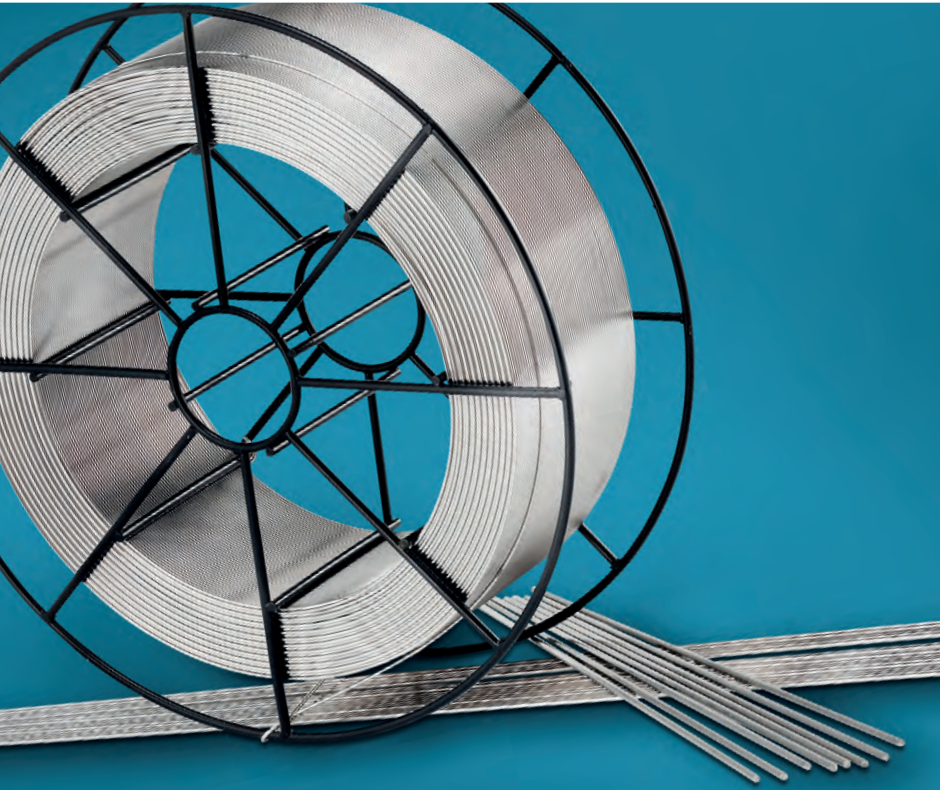




Gebauer & Griller



Nickel & Nickel Alloys



Gebauer & Griller

Founded in 1946 as a small production unit to draw copper wires our company has grown into a respected supplier for customers in more than 50 countries worldwide.

We process more than 11,000 metric tonnes of non-ferrous materials annually, from high-grade copper and aluminium winding wires to nickel based alloy wires and rods.

The largest manufacturers of large-scale electrical machines trust in covered flat or round wires made of aluminium or copper from our site in Linz. These winding wires are used for electrical windings of motors, generators and transformers.

Apart from our winding wires, we are producing round and rectangular wires, bars and billets made of Nickel and Nickel alloys. These products are used worldwide in the welding, lighting, electronic, chemical, automotive, petroleum and optical industries.

The newest addition to our production range is the manufacturing of specialised tinned copper wires for the PV-industry. Our long experience in processing wires and different parts for the renewable energy business facilitated a natural evolution to developing PV-ribbons and bus-bars tailor – made to specific customer requirements.

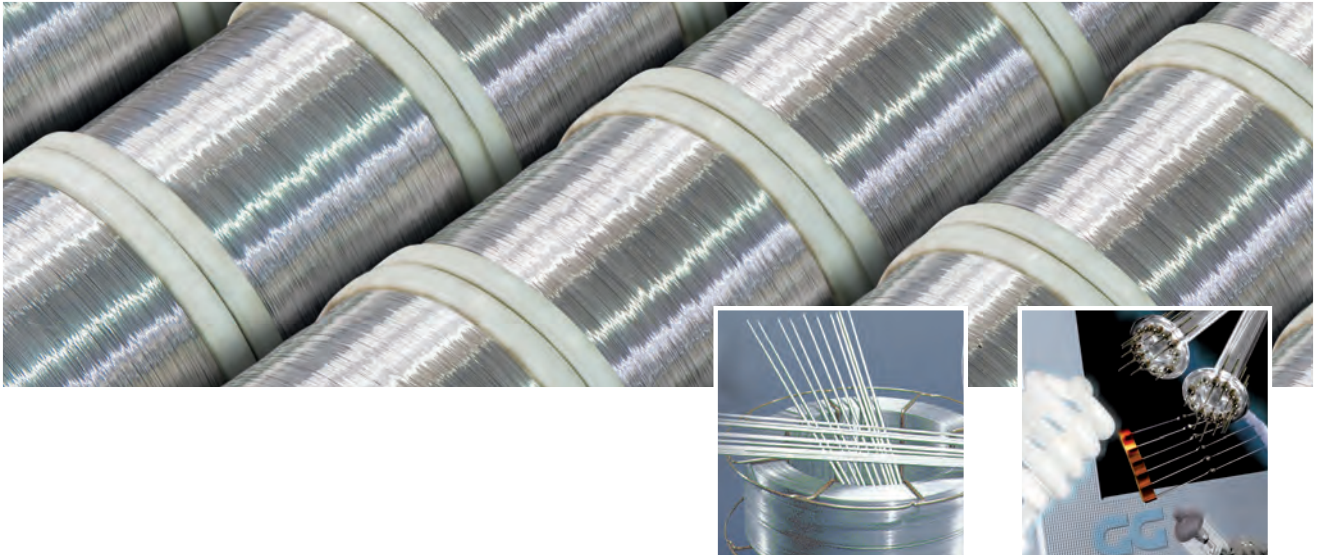
Quality

A quality management system according to ISO 9001 and an environment management system according to ISO 14001 are implemented in order to maintain and continuously improve our high quality standards and individual customer's requests.

All tasks, processes and their results are documented accordingly.

In addition, the conformity with specialized standard systems is confirmed by supplier approval of reputable customers on the basis of detailed testing of the relevant processes - for example in accordance with VDA6 or ASME.

Products



Alloys

Nickel and nickel-based alloys are mainly used in the welding, lighting, electronic and optical as well as chemical and petrochemical industries.

From electronic parts to spectacle frames, from wires for heating conductors to forging parts, from welding rods to reinforcements of cables:

Our products have been developed for a wide range of very different applications and have been successfully used in many fields for many years.

We develop alloys of nickel, cobalt and copper using all elements from the spectrum of metals. These alloys are produced by ingot casting and used as semi-finished metal products from fine wire to forging bars for various applications. Our expertise is found in metallurgy and forming.

Semi-finished products made of nickel and nickel-based alloys

- Pure Nickel
- Nickel-Copper / Copper-Nickel
- Nickel-Copper-Titanium
- Nickel-Iron
- Nickel-Titanium
- Nickel-Chromium
- Nickel-Manganese
- ICN (Iron Clad Steel)
- CCS (Copper Clad Steel)

Applications

- Electrode core wires
- Welding wires for MIG- and TIG-welding
- Flat wire for the production of flux cored wires
- Lead wires for lamps
- CRTs and diodes
- Optical wires (spectacle frames)

Customers

All renowned internationally represented manufacturers of:

- electronic large-scale machines,
- welding materials,
- component parts for the electronic industry,
- lamps.

Materials

Nickel

Alloy	Mat. No	DIN	UNS	ASTM	ANSI/AWS	BS Alloy	BS No.	Others
Ni 99.6	2.4060	17740						
LC-Ni 99.6	2.4061	17740						
Ni 99,2	2.4066	17740	N 02200	B 160		NA 11	3075, 3076	
LC-Ni 99	2.4068	17740	N 02201	B 160		NA 12	3075, 3076	
Ni 205			N 02205	F3				
NiMn 2	2.4110	17741	N 02212					
NiMn 5	2.4116	17741	N 02211	F 290				
SG-NiTi 4	2.4155	1736-T1	N 02061		A 5.14 / ERNi-1	NA 32	2901	
NiAlY								
NiCr 2 Mn 2 Si								

Nickel-Copper

Alloy	Mat. No	DIN	UNS	ASTM	ANSI/AWS	BS Alloy	BS No.	Others
NiCu 30 Fe	2.4360	17743	N 04400	B 164		NA 13	3075, 3076	
LC-NiCu 30 Fe	2.4361	17743	N 04402					
NiCu 30 Fe S			N 04405	B 164				
NiCu 30 Al	2.4375	17743	N 05500	B 865		NA 18	3075, 3076	
SG-NiCu 30 MnTi	2.4377	1736-T1	N 04060		A 5.14 / ERNiCu-7	NA 33	2901	

Nickel-Chromium

Alloy	Mat. No	DIN	UNS	ASTM	ANSI/AWS	BS Alloy	BS No.	Others
NiCr 80 20	2.4869	17470						
SG-NiCr 20	2.4639	1736-T1				NA 34	2901	
SG-NiCr 20 Nb	2.4806	1736-T1	N 06082		A 5.14 / ERNiCr-3	NA 35	2901	
SG-NiCr 21 Mo 9 Nb	2.4831	1736-T1	N 06625		A 5.14 / ERNiCrMo-3			
SG-NiMo 16 Cr 16 W	2.4886	1736-T1	N 10276		A 5.14 / ERNiCrMo-4			

Compositions

Nickel

Alloy	Ni	Cr	Fe	C	Mn	Mg	Si	Cu	Ti	Al	Mo	Co	Nb	S	Others
Ni 99.6	99.65		0.05	0.03	0.15		0.05	0.05							
LC-Ni 99.6	99.65		0.05	0.01	0.15		0.05	0.05							
Ni 99,2	99.4		0.05	0.05	0.25		0.05	0.05							
LC-Ni 99	99.4		0.05	0.01	0.25		0.05	0.05							
Ni 205	99.4		0.05	0.03	0.25	0.03	0.05	0.05	0.03						
NiMn 2	97.5		0.1	0.01	1.9		0.05	0.05							
NiMn 5	94.5		0.1	0.01	4.8			0.1							
SG-NiTi 4	95.5		0.1	0.02	0.3		0.3	0.05	3	0.3					
NIAlY	97		0.1	0.03	0.1		1.1			1.2				0.005	Y: 0.1%
NiCr 2 Mn 2 Si	96	1.6		0.1	1.5		0.6								

Nickel-Copper

Alloy	Ni	Cr	Fe	C	Mn	Mg	Si	Cu	Ti	Al	Mo	Co	Nb	S	Others
NiCu 30 Fe	65		1.5	0.05	1.0		0.05	30							
LC-NiCu 30 Fe	65		1.5	0.02	1.0		0.05	30							
NiCu 30 Fe S	64.5		1.5	0.1	1.9		0.1	30						0.04	
NiCu 30 Al	64		0.8	0.1	0.7		0.15	29	0.6	3.0					
SG-NiCu 30 MnTi	63.5		0.7	0.03	3.1		0.1	30	2.1	0.2					

Nickel-Chromium

Alloy	Ni	Cr	Fe	C	Mn	Mg	Si	Cu	Ti	Al	Mo	Co	Nb	S	Others
NiCr 80 20	79.5	19.5	0.2	0.02	0.2		0.1	0.1							
SG-NiCr 20	78.5	20	0.2	0.05	0.8		0.3	0.1							
SG-NiCr 20 Nb	73	20	0.5	0.02	3		0.2	0.1	0.3				2.5		
SG-NiCr 21 Mo 9 Nb	65	21	0.5	0.02	0.2		0.1	0.1	0.1	0.1	9		3.5		
SG-NiMo 16 Cr 16 W	58	15	5	0.01	0.5		0.05				16				V: 0.1%; W: 3.5%

Applications

Nickel

Alloy	Wires for the electric and electronic industry	Semi-finished products for chemical plants, pressure vessels and constructons
Ni 99.6	Lead wires for lamps, electronic components, strands and expansion wires	Weavings and filters for the chemical industry
LC-Ni 99.6	Lead wires for lamps, electronic components, strands and expansion wires	Weavings and filters for the chemical industry
Ni 99,2	Lead wires for lamps, electronic components, strands and expansion wires	Weavings and filters for the chemical industry
LC-Ni 99	Strands and expansion wires	Weavings and filters for the chemical industry
Ni 205	Lead wires for lamps, electronic components, strands and expansion wires	
NiMn 2	Lead wires for lamps, electronic components, strands and expansion wires	
NiMn 5	Lead wires for lamps, electronic components, strands and expansion wires	
SG-NiTi 4		
NiAlY		
NiCr 2 Mn 2 Si		

Nickel-Copper

Alloy	Wires for the electric and electronic industry	Semi-finished products for chemical plants, pressure vessels and constructons
NiCu 30 Fe	Lead wires for lamps	Saltwater proofed components, weavings for the chemical and petrochemical industry
LC-NiCu 30 Fe		Weavings and filters for the chemical industry
NiCu 30 Fe S		Machined parts and components
NiCu 30 Al		Age hardening alloys for the chemical and petrochemical industry
SG-NiCu 30 MnTi		

Nickel-Chromium

Alloy	Wires for the electric and electronic industry	Semi-finished products for chemical plants, pressure vessels and constructons
NiCr 80 20	Heating elements	
SG-NiCr 20		
SG-NiCr 20 Nb		
SG-NiCr 21 Mo 9 Nb		
SG-NiMo 16 Cr 16 W		

Applications

Nickel

Alloy	Optical and coldheading applications	Welding consumables
Ni 99.6	Corrosion resistant coldheading parts with good thermal conductivity	Electrode core wires for welding pure Nickel and low Nickel alloys. Surface-layer and repair welding of cast iron
LC-Ni 99.6	Corrosion resistant coldheading parts with good thermal conductivity	
Ni 99,2	Corrosion resistant coldheading parts with good thermal conductivity	Electrode core wires for welding pure Nickel and low Nickel alloys. Surface-layer and repair welding of cast iron
LC-Ni 99	Corrosion resistant coldheading parts with good thermal conductivity	
Ni 205		
NiMn 2		
NiMn 5	Spark plug electrodes	
SG-NiTi 4		MIG and TIG weldings, electrode core wires
NiAlY	Spark plug electrodes	
NiCr 2 Mn 2 Si	Spark plug electrodes	

Nickel-Copper

Alloy	Optical and coldheading applications	Welding consumables
NiCu 30 Fe	Optical industry, aerospace and electric contacts	Electrode core wire
LC-NiCu 30 Fe		
NiCu 30 Fe S		
NiCu 30 Al		
SG-NiCu 30 MnTi		MIG and TIG welding

Nickel-Chromium

Alloy	Optical and coldheading applications	Welding consumables
NiCr 80 20		
SG-NiCr 20		Electrode core wire
SG-NiCr 20 Nb		MIG and TIG welding, electrode core wires
SG-NiCr 21 Mo 9 Nb		MIG and TIG welding, electrode core wires
SG-NiMo 16 Cr 16 W		MIG and TIG welding, electrode core wires

Materials

Nickel-Chromium-Iron

Alloy	Mat. No	DIN	UNS	ASTM	ANSI/AWS	BS Alloy	BS No.	Others
NiCr 15 Fe	2.4816	17742	N 06600	B 166		NA 14	3075, 3076	
NiCr 23 Fe	2.4851	17742	N 06601	B 166				
NiCr 60 15	2.4867	17470						
NiCr 30 20	1.4860	17470						

Nickel-Iron

Alloy	Mat. No	DIN	UNS	ASTM	ANSI/AWS	BS Alloy	BS No.	Others
Ni 36	1.3912		K 93601	B 388				SEW 385, MIL-I-23011
Ni 38 Mo 2								
Ni 41			K 94100	F 30				MIL-I-23011
Ni 42	1.3917	17745						SEW 385, MIL-I-23011
Ni 46	1.3920		K 94600	F 30				SEW 385, MIL-I-23011
NiFe 47 Cr 6	2.4486	17745						SEW 385
Ni 48	1.3922	17745	K 94800	F 30				SEW 385, MIL-I-23011
Ni 50								MIL-I-23011
Ni 52	1.3928		N 14052	F 30				SEW 385, MIL-I-23011
NiCo 29 18	1.3981	17745	K 94610	F 15				SEW 385, MIL-I-23011
SG-NiFe2		8573	W 82002		A 5.15 / ENiFe-CI			
NiFe 43								
NiFe 45								

Compositions

Nickel-Chromium-Iron

Alloy	Ni	Cr	Fe	C	Mn	Mg	Si	Cu	Ti	Al	Mo	Co	Nb	S	Others
NiCr 15 Fe	73.5	16	9	0.03	0.2		0.3	0.05	0.2	0.2					
NiCr 23 Fe	60	22	14	0.02	0.5		1.5	0.1	0.2	1.4					
NiCr 60 15	60	15	23	0.05			1								
NiCr 30 20	30	20	47	0.05	1		1.5								

Nickel-Iron

Alloy	Ni	Cr	Fe	C	Mn	Mg	Si	Cu	Ti	Al	Mo	Co	Nb	S	Others
Ni 36	36		63	0.05	0.4		0.3								
Ni 38 Mo 2	38	0.7	58	0.2							2				
Ni 41	41		58	0.03	0.5		0.2								
Ni 42	42		56.5	0.05	0.8		0.2								
Ni 46	46		53	0.03	0.5		0.2								
NiFe 47 Cr 6	47.5	6	45.5	0.01	0.4		0.15								
Ni 48	48		51	0.03	0.5		0.2								
Ni 50	50		49	0.02	0.5		0.1								
Ni 52	51		48	0.02	0.5		0.1								
NiCo 29 18	29		53	0.02	0.3		0.1					17.5			
SG-NiFe2	54		40	0.08	3.5		0.2	1.5	0.3						
NiFe 43	58		40.5	0.05	0.8		0.1	0.1							
NiFe 45	56		42.5	0.05	0.8		0.1	0.1							

Applications

Nickel-Chromium-Iron

Alloy	Wires for the electric and electronic industry	Semi-finished products for chemical plants, pressure vessels and constructons
NiCr 15 Fe		Industrial furnaces, weavings and filters for the chemical industry
NiCr 23 Fe		Industrial furnaces, weavings and filters for the chemical industry
NiCr 60 15	Electrical heating elements	
NiCr 30 20	Electrical heating elements	

Nickel-Iron

Alloy	Wires for the electric and electronic industry	Semi-finished products for chemical plants, pressure vessels and constructons
Ni 36	Measuring and control technology	
Ni 38 Mo 2	Over head lines	
Ni 41	Components for lamps, thermobimetals, glass to metal sealings	
Ni 42	Components for lamps, thermobimetals, glass to metal sealings	
Ni 46	Components for lamps, thermobimetals, glass to metal sealings	
NiFe 47 Cr 6	Glass to metal sealings	
Ni 48	Glass to metal sealings	
Ni 50	Glass to metal sealings	
Ni 52	Glass to metal sealings	
NiCo 29 18	Glass to metal sealings	
SG-NiFe2		
NiFe 43		
NiFe 45		

Applications

Nickel-Chromium-Iron

Alloy	Optical and coldheading applications	Welding consumables
NiCr 15 Fe	Spark plug electrodes	
NiCr 23 Fe		
NiCr 60 15		
NiCr 30 20		

Nickel-Iron

Alloy	Optical and coldheading applications	Welding consumables
Ni 36		
Ni 38 Mo 2		
Ni 41		
Ni 42		
Ni 46		
NiFe 47 Cr 6		
Ni 48		
Ni 50		
Ni 52		
NiCo 29 18		
SG-NiFe2		Cast iron welding
NiFe 43		Cast iron welding
NiFe 45		Cast iron welding

Materials

Copper-Nickel

Alloy	Mat. No	DIN	UNS	ASTM	ANSI/AWS	BS Alloy	BS No.	Others
CuNi 2	2.0802	17471	C 70200					
CuNi 6	2.0807	17471	C 70300					
CuNi 10	2.0811	17471						
CuNi 10 Fe 1 Mn	2.0872	17664	C 70600	B 151		CN 102	2873	
SG- CuNi 10 Fe	2.0873	1733				C 16	2901	
CuNi 15								
CuNi 20						CN 104	2873	
CuNi 23 Mn	2.0881	17471						
CuNi 30 Mn	2.0890	17471						
CuNi 30 Mn 1 Fe	2.0882	17664	C 71500	B 151		CN 107	2873	
SG-CuNi 30 Fe	2.0837	1733	C 71581		A 5.7 / ERCuNi	C 18	2901	
CuNi 40Mn 5Fe 5Cr2*								
CuNi 44	2.0842	17471	N 04401					

* patent-registered

Cobalt-Iron

Alloy	Mat. No	DIN	UNS	ASTM	ANSI/AWS	BS Alloy	BS No.	Others
CoFe 5								
CoFe 5 Ni								

Composite materials

Alloy	Mat. No	DIN	UNS	ASTM	ANSI/AWS	BS Alloy	BS No.	Others
ICN 43								
ICN 45								
ICN 60								
CCS 40				B 452				
CCS 50								
CCS 55								
CCS 60								
CCS 70								
CCS 80								

Compositions

Copper-Nickel

Alloy	Ni	Cr	Fe	C	Mn	Mg	Si	Cu	Ti	Al	Mo	Co	Nb	S	Others
CuNi 2	2							97.5							
CuNi 6	5.5							94							
CuNi 10	9.8							89.5							
CuNi 10 Fe 1 Mn	10.5		1.5		0.7			87							
SG- CuNi 10 Fe	10		0.8		0.8			87.5	0.4						
CuNi 15	14							85							
CuNi 20	19.5							79.5							
CuNi 23 Mn	23				1.5			75							
CuNi 30 Mn	30				3			66							
CuNi 30 Mn 1 Fe	30.5		0.6		0.7			67.5							
SG-CuNi 30 Fe	31		0.5		0.8			66.5	0.4						
CuNi 40Mn 5Fe 5Cr2*	40	2	5		5			47							
CuNi 44	43.5				0.6			55.5							

* patent-registered

Cobalt-Iron

Alloy	Ni	Cr	Fe	C	Mn	Mg	Si	Cu	Ti	Al	Mo	Co	Nb	S	Others
CoFe 5	0.3		5.5	0.02	0.7		0.2			0.01		93		0.005	
CoFe 5 Ni	3.8		5.5	0.01	0.9		0.05			0.01		89		0.005	

Composite materials

Alloy	Ni	Cr	Fe	C	Mn	Mg	Si	Cu	Ti	Al	Mo	Co	Nb	S	Others
ICN 43	57		42	0.04	0.3		0.05								
ICN 45	55		44	0.04	0.3		0.05								
ICN 60	40		59	0.05	0.3		0.05								
CCS 40	Copper Clad Steel Wires 40 % IACS														
CCS 50	Copper Clad Steel Wires 50 % IACS														
CCS 55	Copper Clad Steel Wires 55 % IACS														
CCS 60	Copper Clad Steel Wires 60 % IACS														
CCS 70	Copper Clad Steel Wires 70 % IACS														
CCS 80	Copper Clad Steel Wires 80 % IACS														

Applications

Copper-Nickel

Alloy	Wires for the electric and electronic industry	Semi-finished products for chemical plants, pressure vessels and constructons
CuNi 2	Electrical resistances	
CuNi 6	Electrical resistances	
CuNi 10	Electrical resistances	
CuNi 10 Fe 1 Mn		Parts for heat exchangers and capacitors
SG- CuNi 10 Fe		
CuNi 15	Electrical resistances	
CuNi 20	Electrical resistances	
CuNi 23 Mn	Electrical resistances	
CuNi 30 Mn	Electrical resistances	
CuNi 30 Mn 1 Fe		Parts for heat exchangers and capacitors
SG-CuNi 30 Fe		
CuNi 40Mn 5Fe 5Cr2*		Saltwater proofed components, weavings for chemical and petrochemical industry
CuNi 44	Electrical resistances, thermocouples	

* patent-registered

Cobalt-Iron

Alloy	Wires for the electric and electronic industry	Semi-finished products for chemical plants, pressure vessels and constructons
CoFe 5		
CoFe 5 Ni		

Composite materials

Alloy	Wires for the electric and electronic industry	Semi-finished products for chemical plants, pressure vessels and constructons
ICN 43		
ICN 45		
ICN 60		
CCS 40	Lead wires for electronic components	
CCS 50	Lead wires for electronic components	
CCS 55	Lead wires for electronic components	
CCS 60	Lead wires for electronic components	
CCS 70	Lead wires for electronic components	
CCS 80	Lead wires for electronic components	

Applications

Copper-Nickel

Alloy	Optical and coldheading applications	Welding consumables
CuNi 2		
CuNi 6		
CuNi 10		
CuNi 10 Fe 1 Mn	Parts for heat exchangers and capacitors	
SG- CuNi 10 Fe		Welding material
CuNi 15		
CuNi 20		
CuNi 23 Mn	Parts for heat exchangers and capacitors	
CuNi 30 Mn		
CuNi 30 Mn 1 Fe		
SG-CuNi 30 Fe		Welding material
CuNi 40Mn 5Fe 5Cr2*	Optical industry, aerospace	
CuNi 44	Parts for heat exchangers and capacitors	

* patent-registered

Cobalt-Iron

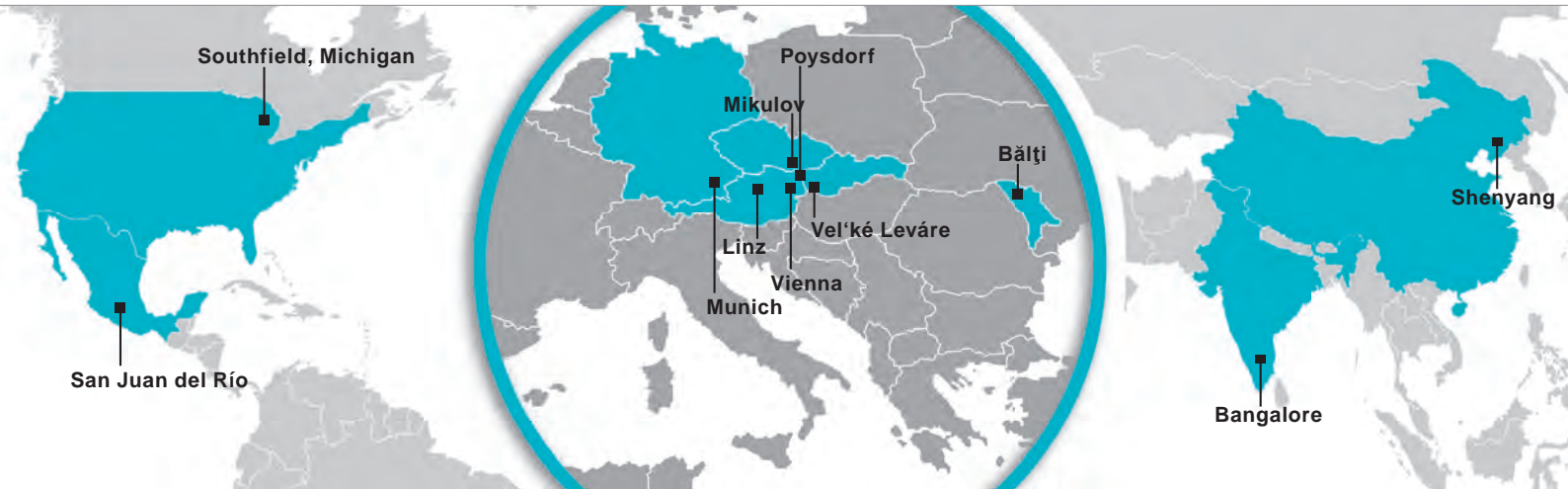
Alloy	Optical and coldheading applications	Welding consumables
CoFe 5		Welding material
CoFe 5 Ni		Welding material

Composite materials

Alloy	Optical and coldheading applications	Welding consumables
ICN 43		Electrode core wires for cast iron welding
ICN 45		Electrode core wires for cast iron welding
ICN 60		Electrode core wires for cast iron welding
CCS 40		
CCS 50		
CCS 55		
CCS 60		
CCS 70		
CCS 80		



innovative - competent - reliable



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