Sprint Metal

Fine wire for high-tech demands

Sprint Metal

It‘s your advantage

Integrated product development: from the melt to the finish product

Sprint Metal is a specialist and technology leader in the area of fine and ultrafine stainless steel wires.

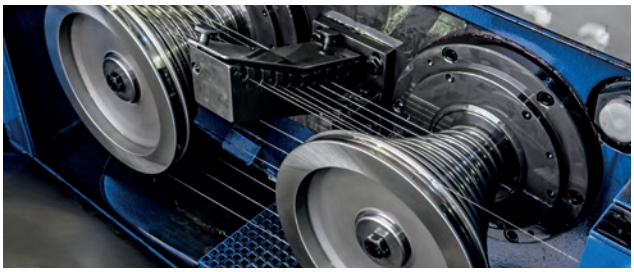
The company can look back at a tradition that spans over a period of 80 years. The company is a 100% subsidiary of the French steelmaker Ugitech S.A., it became part of a virtually unique integrated production process.

Fast access to the entire supply chain – from the melt to the finished product – enables the continuous development of application-oriented material solutions in close cooperation with the sister companies. More than 300 customers benefit from the company‘s high degree of service-orientated approach and its expertise in product development and quality assurance.

Our fine and ultrafine qualities

Material	DIN	AISI	Tradename	UNS
139120	FeNi36		Invar®*	
140160	X6Cr17	430		S 43000
140620	X2Cr-Ni-N22-2			S 32202
143010	X5CrNi18-10	304		S 30400
143030	X4CrNi18-12	305		S 30500
143060	X2CrNi19-11	304L		S 30403
143070	X2CrNi18-9	304L		S 30403
143100	X10CrNi18-8	301		S 30100
143100		302	SPRINOX®	S 30200
143620	X2Cr-Ni-N23-4			S 32304
144010	X5CrNiMo17-12-2	316		S 31600
144040	X2CrNiMo17-12-2	316L		S 31603
144100	X2Cr-Ni-MoN25-7-4			S 32750
144350	X2CrNiMo18-14-3	316L		S 31603
144380	X2CrNiMo18-15-4	317L		S 31703
144620	X2CrNiMoN22-5-3			S 32205
145110	X3CrNb17	430Nb		
145290	X1NiCrMoCuN25-20-7	-		N 08926
145390	X1NiCrMoCuN25-20-5	904L	Uranus® B6*	N 08904
145410	X6CrNiTi18-10	321		S 32100
145470	X1CrNiMoCuN20-18-7		Avesta 254SMO	S 31254
145500	X6CrNiNb18-10	347		S 34700
145670	X3CrNiCu18-9-4	304Cu		S 30430
145710	X6CrNiMoTi17-12-2	316Ti		S 31635
147670			Gilphal 135	
148280	X15CrNiSi20-12	309		S 30900
148330	X12CrNi23-13	309S		S 30908

Material	DIN	AISI	Tradename	UNS
148350	X9CrNiSiNCe21-11-2		Avesta 253MA	S 30815
148410	X15CrNiSi25-21	314		S 31400
148450	X8CrNi25-21	310S		S 31008
148600			Gilphy 30	
148760			Incoloy® 800	
208420	CuNi44		CuNi44	
240600		200	Nickel 99,6	
240660		200	Nickel 99,2	
240680			LC-Ni99	
243600			Monel® 400	
243610			LC-NiCu30Fe	
246020			Hastelloy® C22	
246050	NiCr23Mo16Al		Alloy 59	N 06059
246100			Hastelloy® C4	
246320			Nimonic® 90	
246580			Gilphy 70	
246600			Carpenter 20CB3	
246690			Inconel® X-750	
248160			Inconel® 600	
248190			Hastelloy® C.276	
248510			Inconel® 601	
248560			Inconel® 625	
248580			Inconel® 825	
248670			Gilphy 60	
248690			Gilphy 80	
F204CU		204Cu		
PHYNOX®*			PHYNOX®*	R 30008



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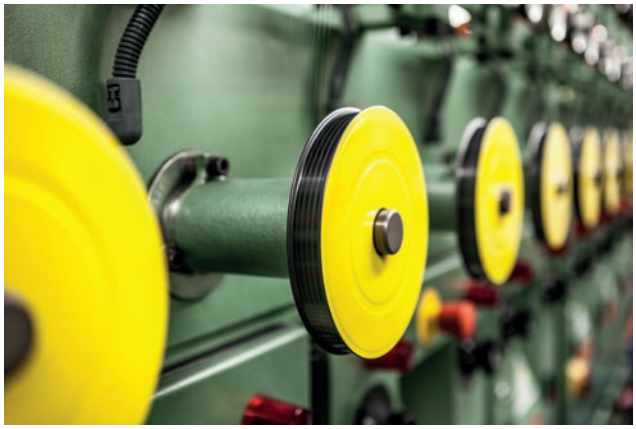
Upon request, we offer you those and other materials in hard-drawn, finally annealed and redrawn steel for an application-orientated solution. Simply, give us a call!

Our products
Always one step ahead

In the past few years, the product demands of our customers have increased rapidly. As a reliable and successful partner, this is exactly what Sprint Metal has done as well.



Based on the constant adaptation to current market conditions and new developments, a wide range of products was created through the combination of materials, processes and test methods (HG, NG, SG), coatings and coiling variants. Here, the dimensions range from 0.013 to 1.30 mm. These dimensions can only be achieved since we can guarantee the required quality across the entire process chain, starting from the melt to the final wire.

Standard spool types

Description spools	Type[1]	Recommended diameter range	Recommended filling weight (g)
MF 40	F	0.019-0.030	200
MF 50	F	0.040-0.050	400
HKL 40	B	0.019-0.030	200
HK 76/45	B	0.025-0.040	400
HK 80/45	B	0.025-0.053	800
BIK 7	B	0.025-0.060	1,500
BIK 8	B	0.040-0.071	3,000
HKV 125/45	B	0.070-0.120	3,000
HKV 160/45	B	0.090-0.120	6,000
DIN 40	F	0.040-0.060	250
DIN 50	F	0.040-0.060	350

Description spools	Type[1]	Recommended diameter range	Recommended filling weight (g)
DIN 63	F	0.040-0.060	500
DIN 80	F	0.050-0.100	900
DIN 100	F	0.100-0.150	1,500
DIN 125	F	0.100-0.150	3,000
DIN160	F	0.12-0.20	6,000
DIN 200	F	0.15-0.40	12,000
DIN 250	F	0.28-1.00	20,000
DIN 355	F	0.28-1.20	36,000
PT 45	F	0.16-0.70	45,000
PT 90	F	0.25-0.70	90,000
Faß		0.50-0.80	50,000

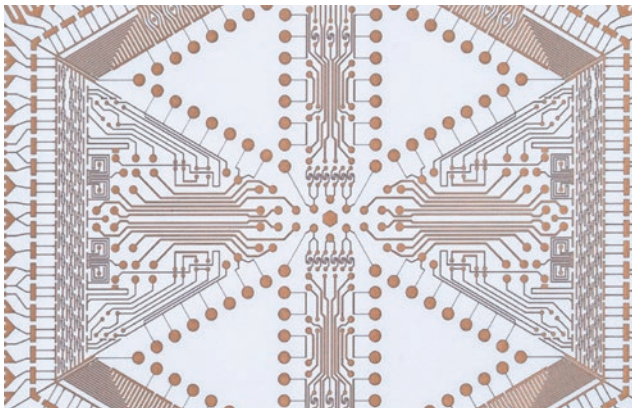
One way spools on request

1
F = biconical B = flange
Use of customer-supplied coils upon request

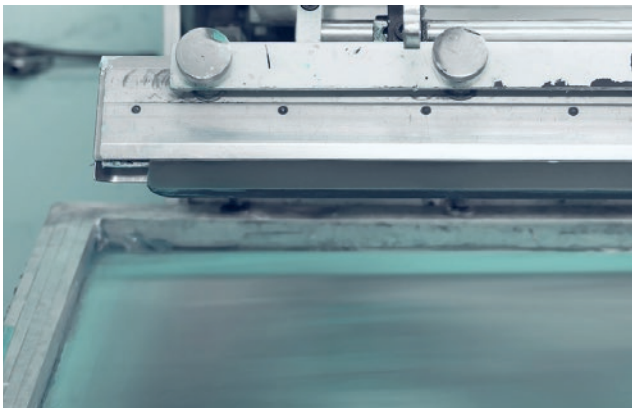
Innovative solutions
Industry branches

Our materials are used wherever the requirements for precision, aesthetics or service life are extremely high. Technical developments move at a fast pace.

This affects the technical specifications and increases the demand on materials for components and tools. Currently, the end of this development cannot be forecast. However, we are already prepared for further advances.



Electronic screen printing (weaving wire)
OLEDs, plasma displays or fuel cells: these products require the manufacture of multi-layer high-precision printing processes. Electronic screen printing is more efficient than the traditional procedures. Thanks to the properties of the fabric made of our ultrafine wires, structures can now be printed extremely fine (up to 900 mesh). Thus, screen printing has opened a completely new area for technical applications.



Screen printing (weaving wire)
Precision, print capacity and durability of the screen printing frame are extremely influential to the quality of traditional screen printing. In technical screen printing, the quality of the printed image can be improved significantly by applying ultrafine wires. Increased strengths extend the service life and thereby optimise the cost.

Solar panel (weaving wire)

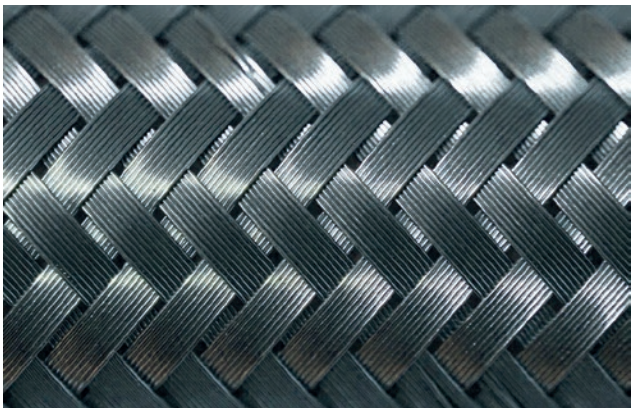
During the production of solar panels, the extremely thin doping of the solar cell is the technical essence of the procedure. Again, the more structures are accommodated on the cell, the higher the output. We use our fine wires to produce tools that increase the efficiency of the cells further; thereby enabling new applications in the field of energy supply.

Architecture (weaving wire, ring mesh)

Ring and scale meshes and metallic fibres are becoming increasingly popular in architectural applications. Whether as a simple room partition or an installation with an area of more than 100 m^2, these visually exciting meshes are extremely versatile. Special requirements of the wires include demanding the lowest possible weight and highest tensile strength. In recent years, Sprint Metal has developed and optimised numerous materials for these special applications.

Filtration and screening (weaving wire, knitting wire)

In many industries, the introduction of liquid media is one of the most important process steps, and it is the decisive factor that impacts the quality of the product. High precision, 100% reliability, long-term use, but also economic advantages – such as optimal cleaning properties and recyclability – are the focal point. Filtration fabrics made of fine wire by Sprint Metal, allow particularly fine structures that include a very high durability.



Automotive industry (weaving wire, braiding wire, knitting wire, cable wire)

The automotive industry has always been considered a branch that is particularly driven by innovation, especially in the areas of design and engine technology. Materials must become ever lighter and more durable. For many years, Sprint Metal has provided customised material solutions for the precious interior parts or engine performance. The close coordination with the factory, and as a result, the rapid pace of innovation is a key factor.

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