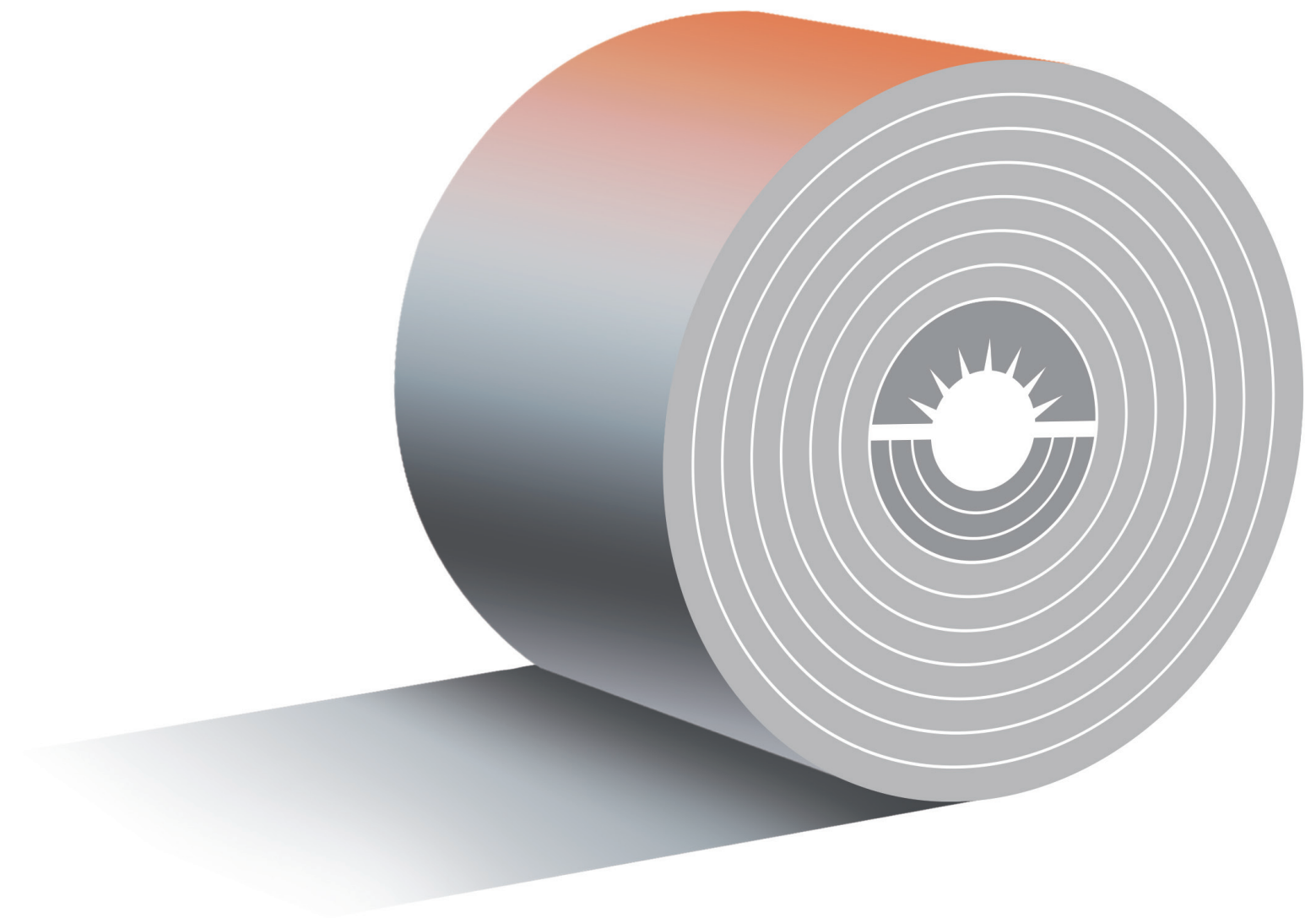


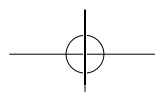
**Your Ultimate Supplier of  
Nickel/Titanium Alloy  
and Super Stainless Steel**



**RUISEN**

For More Information On The Products And Services Offered  
By Ruisen Special Steel, Or To Request A Specific Quote, Please  
Visit Our Official Website: [www.ruisen-special-steel.com](http://www.ruisen-special-steel.com)

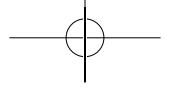
Phone: +1 (814) 954 4929 Email: [info@ruisenss.com](mailto:info@ruisenss.com)  
Address: 401A Industrial Dr, North Wales, PA 19454, USA





Do Good for Earth



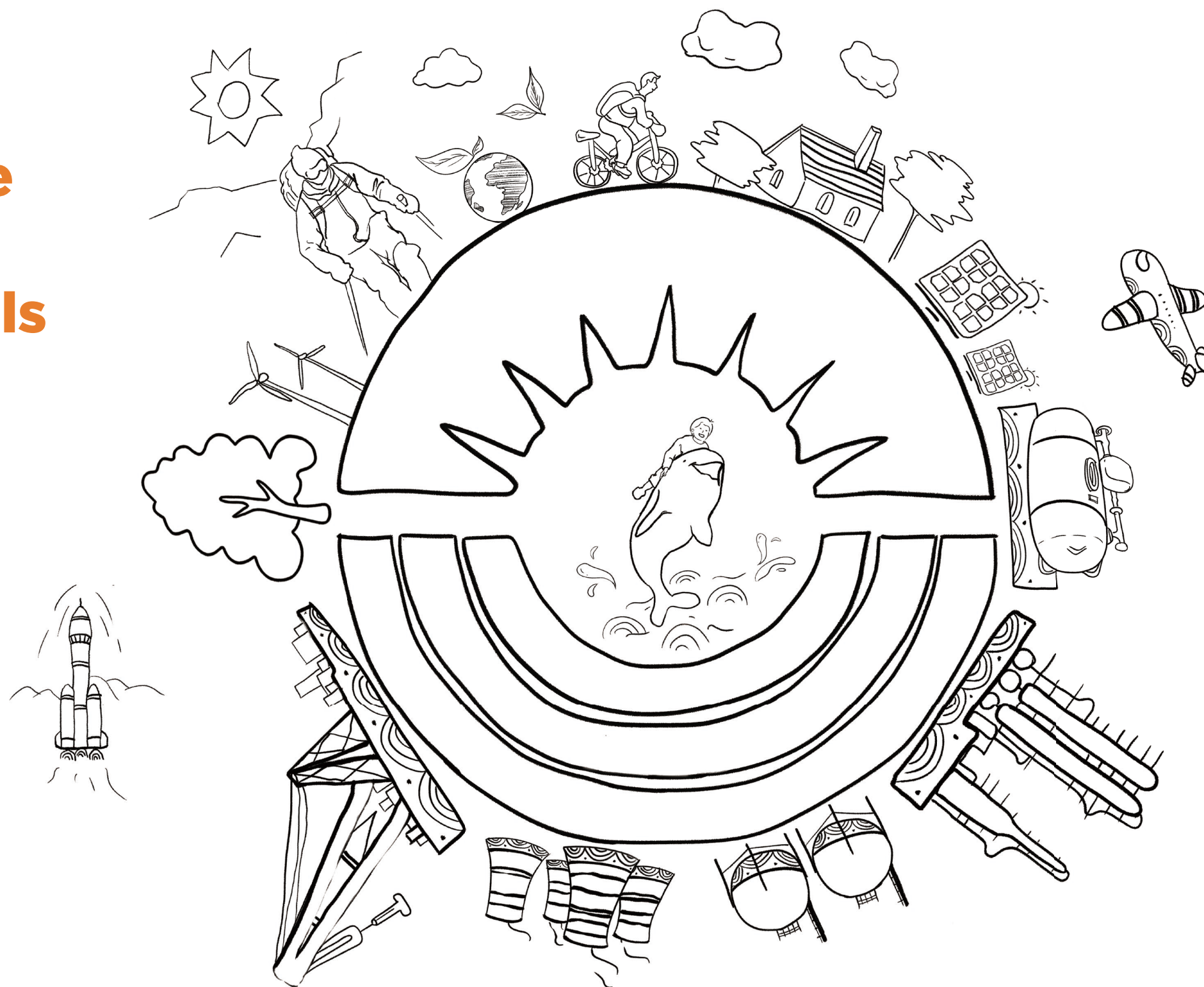


# A Global Leader in High-Performance Corrosion and Heat-Resistant Metals

Headquartered in Pennsylvania, USA, Ruisen Special Steel, Inc. is a global provider dedicated to delivering high-performance, corrosion-resistant, and heat-resistant alloy materials.

With inventory exceeding 10,000 MT at all times.

Our primary products include titanium alloys, nickel-based alloys, super stainless steel, and welding materials, widely used across industries such as aerospace, marine, oil & gas, and chemical processing. Guided by our commitment to quality and customer-first values, Ruisen continues to provide premium materials to the global market.



## Our Cutting-Edge Portfolio

### 01 Titanium Alloys

Revolutionizing industries with their unparalleled strength-to-weight ratio and corrosion resistance.

### 02 Nickel-Based Superalloys

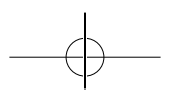
Engineered to thrive where others fail, these alloys excel in the most demanding high-temperature applications.

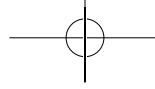
### 03 Super Stainless Steels

Pushing the boundaries of corrosion resistance while maintaining exceptional mechanical properties.

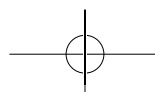
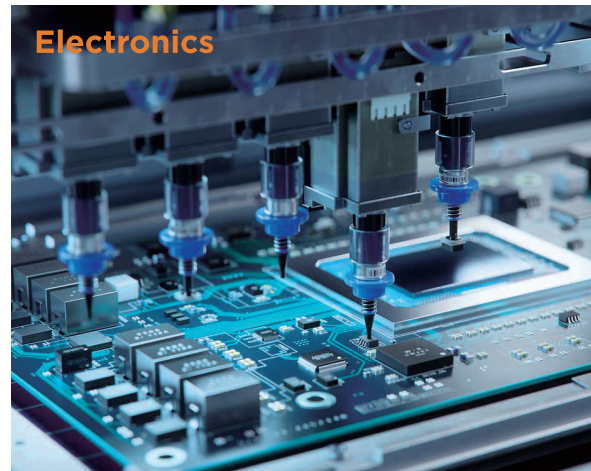
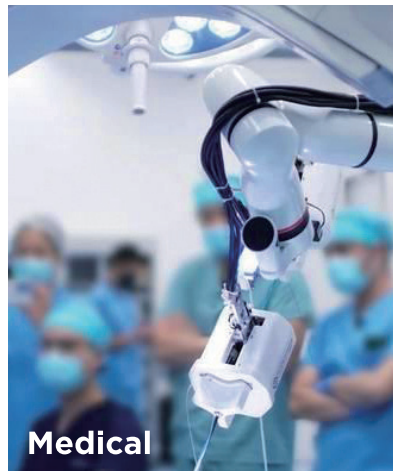
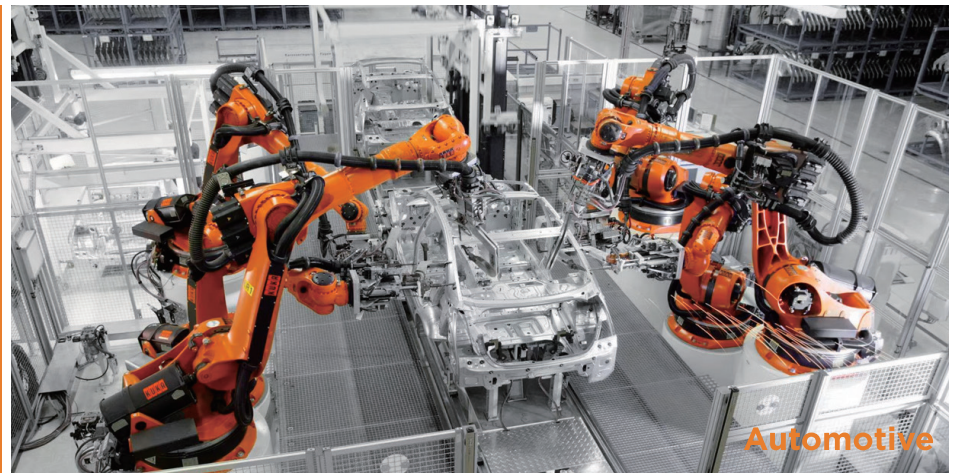
### 04 Advanced Welding Materials

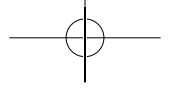
Ensuring structural integrity in the most critical applications through innovative joining solutions.



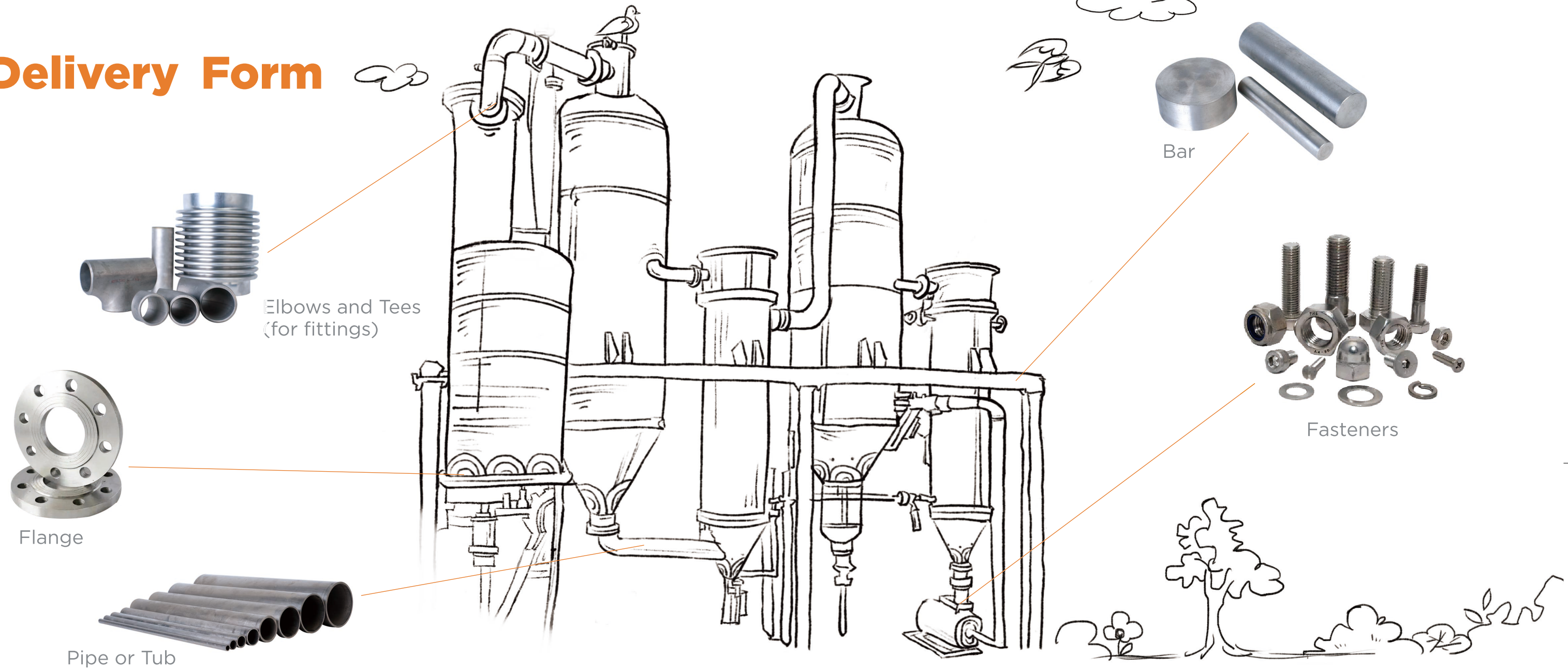


# Application Fields

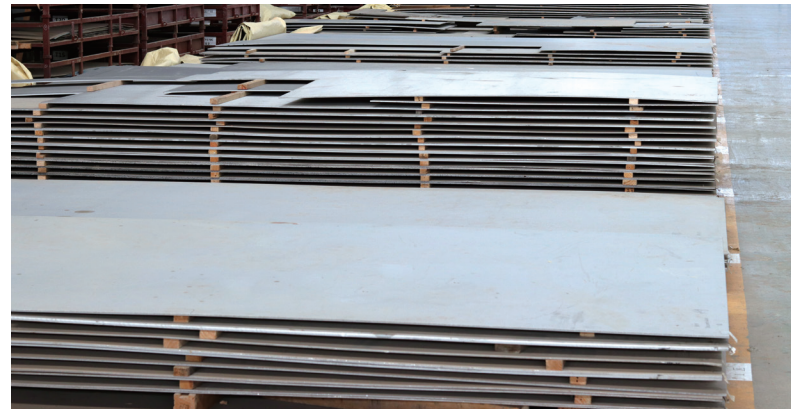




# Delivery Form



Flat Sheet or Coil



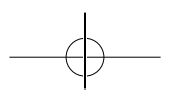
Flat Plate



Explosion Bonded Clad Plate



Welding Material





# 02

## Comprehensive Specialty Steel Solutions with Precision Cutting and Processing Services

Ruisen offers one of the most comprehensive selections of specialty alloys, along with precision cutting, shearing, and processing services. Our tailored services enable clients to receive materials that meet specific dimensions and shapes, enhancing production efficiency, ensuring seamless integration into each project.



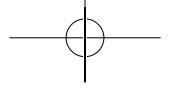
08-09

## Why Ruisen?

### Pioneering Eco-Conscious Solutions in High-Performance Metallurgy

As a leader in sustainable metallurgical innovation, we supply advanced titanium alloys, nickel-based superalloys, and stainless steels from well-known manufacturers around the globe. All materials are designed to maximize performance while minimizing environmental impact. We are committed to environmental responsibility and adhering to international carbon emission standards with all certificates.

# 01



03

### Safety Through Innovation

We prioritize safety at every stage - from production to shipment. Our alloys are designed to enhance workplace safety by improving structural integrity. Every batch undergoes stringent testing to ensure it meets the highest safety standards.

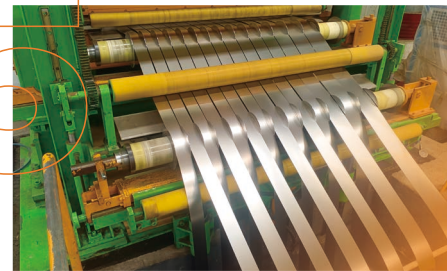


### Uncompromising Quality

Quality isn't just a promise; it's ingrained in our DNA. Our rigorous quality management system, ensures consistent excellence across our entire product range. By continuously improving our quality controls, we strive to exceed expectations and set new industry benchmarks.

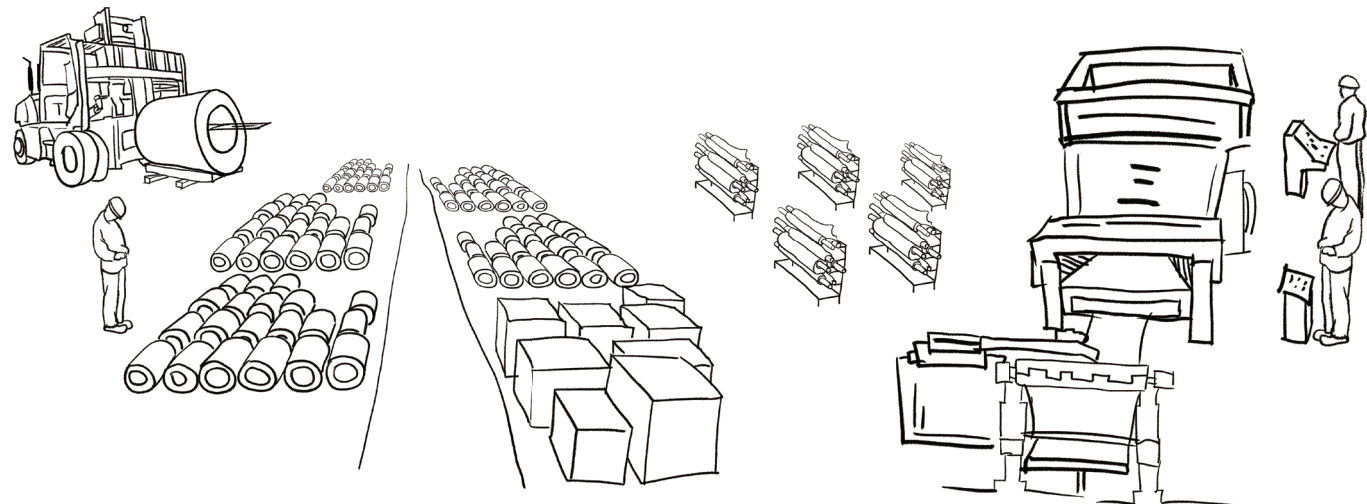
04

05



### Beyond Materials: Partnering for Progress

We don't just sell alloys; we forge partnerships. Our global team of metallurgical experts works closely with clients to develop tailored solutions. Through dedicated support, we enable our clients to achieve their ambitious goals and push industry standards forward.



### Global Logistics and Supply Chain Management

With our extensive network spanning North America, Europe, and Asia, with minimum of 10,000 MT in inventory at all times, Ruisen ensures on-time delivery of materials worldwide. Our presence in Asia includes local offices, storage and converting facilities, optimizing logistics to get materials quickly into customers' hands.

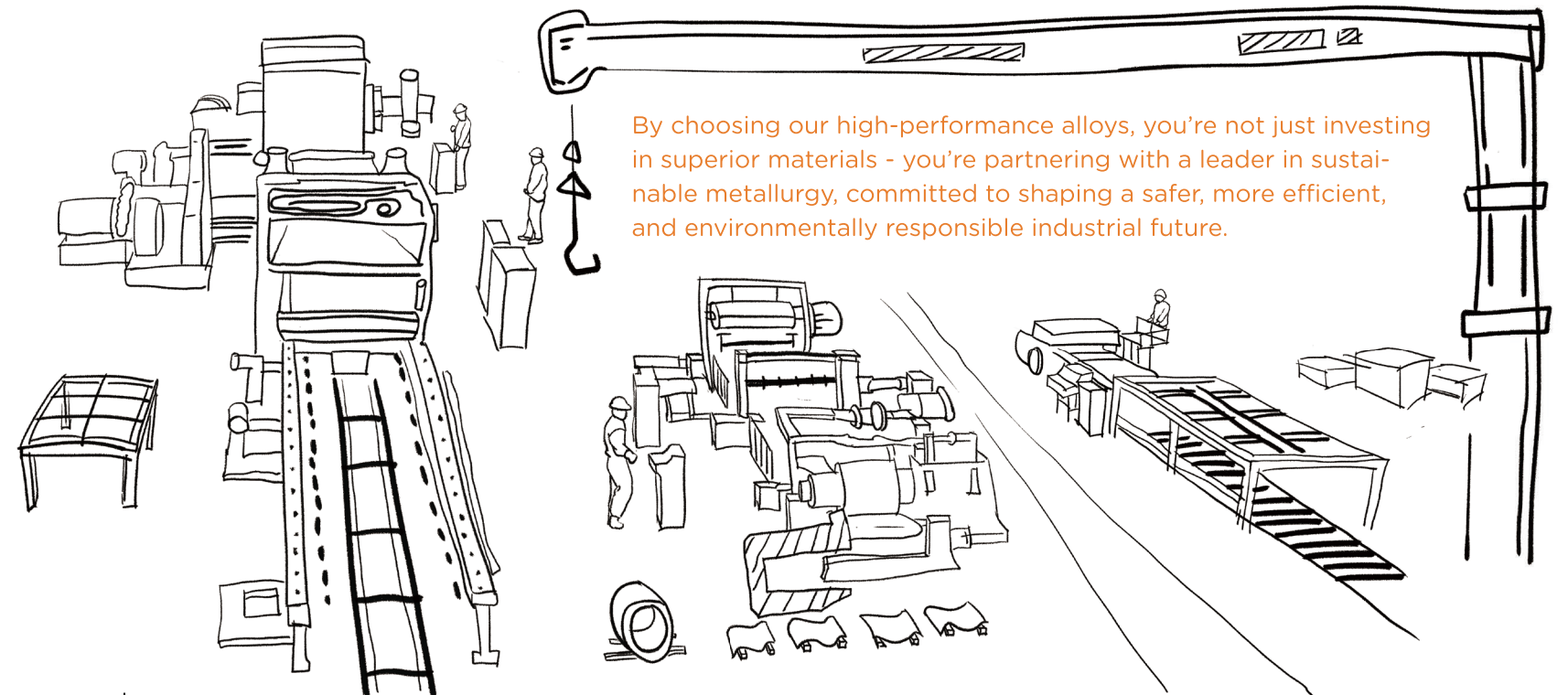
06



### Global Reach, Local Expertise, and Dedicated Support

With worldwide presence and local knowledge, we take pride in providing unparalleled support and insights to partners across the globe, ensuring clients receive customized and responsive services.

07



By choosing our high-performance alloys, you're not just investing in superior materials - you're partnering with a leader in sustainable metallurgy, committed to shaping a safer, more efficient, and environmentally responsible industrial future.

# Major Inventory

## Nickel and Nickel Alloy

Common Name	UNS No.	DIN/EN	Key Characteristics	Recommended welding consumables
Nickel 200	N02200	2.4066	Industrial pure nickel with good corrosion resistance in alkaline environments	E(R)Ni-1
Nickel 201	N02201	2.4068	Low carbon version of Nickel 200 for better corrosion resistance at high temperatures	E(R)Ni-1
INCOLOY® Alloy 25-6Mo	N08926	1.4529	Commonly used in FGD wet flue gas desulfurization and denitrification, can effectively resist chloride ion stress corrosion	E(R)NiCrMo-3
INCOLOY® Alloy 25-6HN	N08367	—	Commonly used in FGD wet flue gas desulfurization and denitrification, equivalent to AL-6XN	E(R)NiCrMo-3
INCOLOY® Alloy 20	N08020	2.4660	Excellent resistance to sulfuric acid and phosphoric acid corrosion, and good mechanical properties below 500°C	E(R)NiCrMo-3
INCOLOY® Alloy 800	N08800	1.4876	Excellent corrosion and high temperature resistance, good mechanical properties from minus to 600°C	ERNiCr-3/ ENiCrFe-3 E(R)NiCrCoMo-1
INCOLOY® Alloy 800H	N08810	1.4876	High-carbon version of INCOLOY® Alloy 800 for better creep properties	
INCOLOY® Alloy 800HT	N08811	1.4876	Higher permissible stresses due to increased Al and Ti content compared to 800H	
INCOLOY® Alloy 825	N08825	2.4858	Titanium stabilized nickel-iron-chromium alloy with excellent resistance to stress corrosion cracking	E(R)NiCrMo-3
INCONEL® Alloy 600	N06600	2.4816	Very good resistance to by reducing, oxidizing and nitrogenating media corrosion	E(R)NiCr-3
INCONEL® Alloy 601	N06601	2.4851	Nickel-iron-chromium alloy with Al and Ti additions for excellent oxidation resistance at high temperatures	ERNiCrFe-11/ ENiCrCoMo-1
INCONEL® Alloy 625	N06625	2.4856	Low-carbon nickel-chromium-molybdenum-niobium alloy with excellent corrosion resistance in a wide range of corrosive media	E(R)NiCrMo-3

INCONEL® Alloy 625LCF	N06626	2.4856	Provides better resistance to low-cycle fatigue, mostly used in bellows manufacturing	E(R)NiCrMo-3
INCONEL® Alloy 686	N06686	2.4606	Excellent corrosion resistance can be used as a universal weld filler metal	E(R)NiCrMo-14
INCONEL® Alloy 718	N07718	2.4668	Precipitation-hardened nickel-iron-chromium alloy, high-temperature high-strength and excellent creep properties	ERNiFeCr-2
MONEL® 400 Nickel-copper alloy	N04400	2.4360	Solid solution strengthened nickel-copper alloy with good corrosion resistance in seawater environment	E(R)NiCu-7
HASTELLOY® C-276	N10276	2.4819	Good resistance to oxidizing and moderately reducing corrosion; excellent stress corrosion resistance	E(R)NiCrMo-4
HASTELLOY® C-22	N06022	2.4602	Better resistance to uniform corrosion in oxidizing media than C-4 and C-276, excellent resistance to localized corrosion	E(R)NiCrMo-10
HASTELLOY® C-2000	N06200	2.4675	The most versatile corrosion-resistant alloy with excellent homogeneous corrosion resistance in both oxidizing and reducing environments	E(R)NiCrMo-17
HASTELLOY® B-2	N10665	2.4617	Nickel-molybdenum alloy with excellent corrosion resistance in reducing environments	E(R)NiMo-10
HASTELLOY® B-3	N10675	2.4600	Upgraded product of B-2 with excellent corrosion resistance to hydrochloric acid at any temperature and concentration	E(R)NiMo-10
HASTELLOY® G-30	N06030	—	Nickel-based alloy with high chromium content for excellent performance in phosphoric acid and other strong oxidizing acid mixtures	E(R)NiCrMo-11
Nicrofer® 5923 hMo	N06059	2.4605	Excellent resistance to pitting corrosion and chloride-induced stress corrosion cracking, resistance to inorganic mixed acid corrosion	E(R)NiCrMo-11



## Titanium And Titanium Alloy

ASTM B265		Chinese Standard GB/T 3620.1	Japanese Standard JIS H4600	Key Characteristics
Titanium	Gr.1	TA1	Class 1	Low iron and oxygen, good stamping performance, commonly used in plate heat exchangers and stamping parts
	Gr.2	TA2	Class 2	Higher strength than Gr.1, mostly used in corrosive chemical equipment
	Gr.3	TA3	Class 3	Higher strength, mostly used in low-pressure containers and storage tanks with corrosive requirements
	Gr.4	TA4	Class 4	It is the highest strength in pure titanium and is mostly used for bone plates in human implants
Titanium Alloys	Gr.5	TC4 Ti-6Al-4V	Class 60	The most widely used $\alpha+\beta$ alloy, high strength, poor toughness
	Gr.7	TA9	Class 12	Gr.2 with added palladium (Pd) for better corrosion resistance
	Gr.9	TC2	Class 61	Half TC4, higher application temperature than Gr.1.-4
	Gr.11	TA9-1	Class 11	Gr.1 with added palladium (Pd) for better corrosion resistance
	Gr.23	TC4 ELI	Class 60E	Low content of interstitial elements, good impact toughness

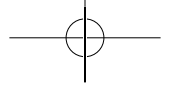


## Stainless Steel

Classification		Designation/Grade		Outokumpu Commodity name	Recommended welding consumables
		EN	ASTM		
General usage, corrosion resistance	Austenitic stainless steel	1.4301	304	4301	E(R)308L
		1.4550	347	4550	E(R)347
		1.4571	316Ti	4571	E(R)316L
		1.4404	316L	4404	E(R)316L
		1.4438	317L	4438	E(R)317L
	Urea grade stainless steel	1.4435	316Lmod	724L	25.22.2
		1.4466	S31050	725LN	25.22.2
	Super austenitic stainless steel	1.4539	904L	904L	E(R)385
		1.4547	S31254	254SMO	E(R)NiCrMo-3
	Duplex steel	1.4162	S32101	LDX 2101	E(R)2209
		1.4362	S32304	SAF 2304	E(R)2209
		1.4462	S32205	2205	E(R)2209
		1.4410	S32750	SAF 2507	E(R)2594
	Heat-resistant, creep-resistant	Austenitic stainless steel	1.4541	321	4541
1.4833			309S	4833	E(R)309(L)
1.4845			310S	4845	E(R)310
1.4835			S30815	253MA	253MA

## Customized Special Nickel Alloy

Common Name	UNS No.	DIN/EN	Key Characteristics	Recommended welding consumables
Nickel 270	N02270	2.4050	High purity nickel, low hardness, high ductility	—
INCOLOY® Alloy A286	S66286	1.4980	Iron-nickel-chromium alloy with added Mo and Ti, good mechanical properties and oxidation resistance at 700°C	E(R)NiCrMo-3
INCOLOY® Alloy 27-7Mo	S31277	—	Super stainless steel with 7% Mo, excellent performance in oxidizing and reducing media	E(R)NiCrMo-3
INCOLOY® Alloy 28	N08028	1.4563	Mostly used in the petrochemical industry, with excellent performance in both oxidizing and reducing media	E(R)NiCrMo-3
INCOLOY® Alloy 330	N08330	1.4886	Improved oxidation resistance through the addition of Si, widely used in industrial furnaces	E(R)NiCrCoMo-1
INCONEL® Alloy 690	N06690	2.4642	Nickel-iron-chromium alloy with high chromium content, excellent resistance to high-temperature oxidation performance	E(R)NiCrFe-7



# Cooperative Partners

