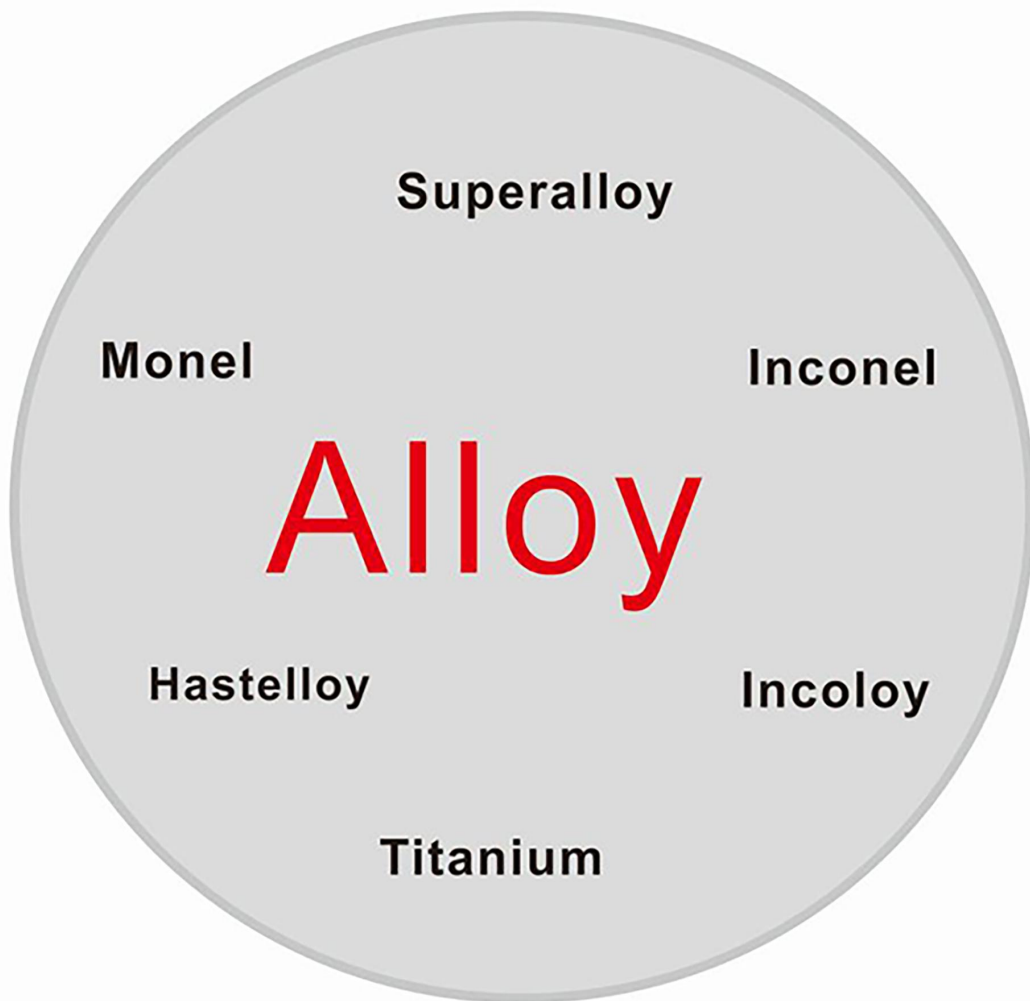


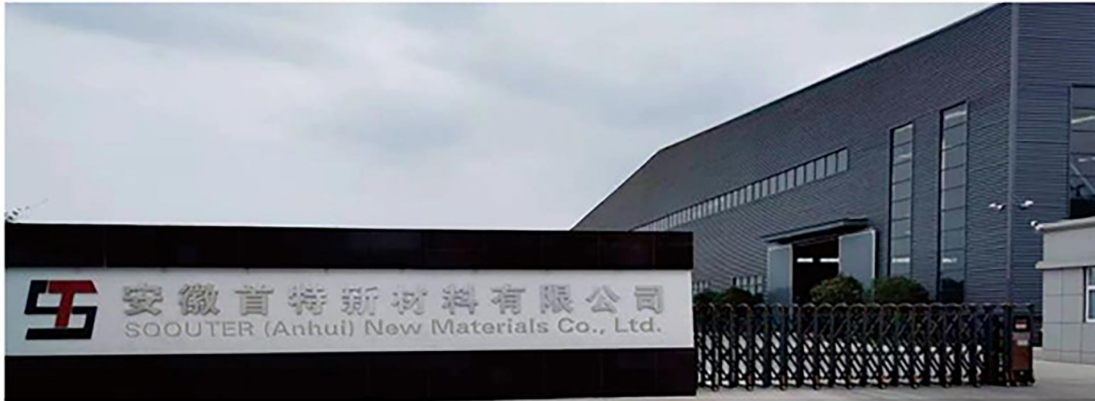


***Alloy Material Production Expert***



安徽首特新材料有限公司

SOOUTER(ANHUI)NEW MATERIALS CO.,LTD.

 **ABOUT SO OUTER**

SO OUTER (Anhui) New Materials Co., Ltd. is located in Lu'an City, China. The company was established on May 21, 2021, and production workshop covers an area of 36,427 square meters. Currently SO OUTER focuses on the research and production of nickel-based alloys and titanium materials, including Hastelloy, Incoloy, Inconel, Monel, Haynes, etc. These materials are produced in the form of plates, sheets, bars, forgings, pipes, fittings, flanges, wires, and are widely used in various fields such as petrochemicals, steam turbines, chemical equipment, aerospace, marine industry, medical instruments, seawater desalination, offshore drilling platform, etc. Over the years, SO OUTER has established long-term cooperative relationships with customers both domestically and internationally. The company adheres to technological innovation, down-to-earth principles, mutual benefit, and win-win cooperation, continuously making progress in the field of special alloys. In high-temperature, high-pressure, strong corrosion, and other special application environments, SO OUTER provides customers with scientific solutions and high-quality services.



Business Licence



Land Certificate



Trademark



ISO9001 QS Certificate

Address: Pingqiao Industrial Park, Pingqiao Town, Yu'an District, Lu'an City, Anhui Province, P.R.China

E-mail: sales@soouter.com.cn    Office Tel: +86-564-2511760    Phone: +86 13913044711

**Main Products**



Plates/Sheets



Rods/Bars



Flanges



Pipes/Tubes



Filler wires



Coils



Pipe fittings

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### Product Size Range(mm)

Rod & Bar	Forged Scaled	Φ50-250, L:1000-4000
	Lathed	Φ60-250, L:800-1500
	Hot Rolled	Φ20-50, L:2000-5000
	Cold Drawn	Φ4-20, L:2000-5000
Wire	Hot Rolled	Φ5.5-25, in spools
	Cold Drawn	Φ0.8-15, in spools
Plate & Sheet	Hot Rolled	T:4.5-36, W:650-2000, L:1000-4500.
	Cold Rolled	T:0.8-4.5, W:650-1000, L:800-2200.
Pipe & Tube	Seamless	OD:Φ6-273, WT: 1-30, L:1000-8000
	Welded	According to clients' request.
Fitting	Wrought	According to ASME b16.9.
	Forged	According to ASME b16.11.
Flange		According to ASME b16.11.

### Alloys ASTM Specification

Materials		Product Standards		
Grade		Plate/sheet/strip/coil	Bar/rod	Pipe/tube
Hastelloy C276	UNS N10276	ASTM B575	ASTM B574	ASTM B622 (s), ASTM B619/626(w)
Hastelloy C22	UNS N06022	ASTM B575	ASTM B574	ASTM B622 (s), ASTM B619/626(w)
Hastelloy B2	UNS N10665	ASTM B333	ASTM B335	ASTM B622 (s), ASTM B619/626(w)
Hastelloy G30	UNS N06030	ASTM B582	ASTM B581	ASTM B622 (s), ASTM B619/626(w)
Hastelloy X	UNS N06002	AMS5536, ASTM B435	AMS5754, ASTM B572	ASTMB622, AMS5587/5588 (s), ASTM B619/626, AMS 5588(w)
Haynes 188	UNS R30188	AMS 5608	AMS B5772	-
Haynes 230	UNS N06230	AMS5878, ASTM B435	AMS 5891, ASTM B572	ASTM B622, ASTM B619/626
Haynes 25	UNS R30605	AMS5537	AMS5759	ASTM B619/626
Inconel 600	UNS N06600	AMS5540, ASTM B168	AMS5665, ASTM B166	AMS 5580, ASTMB167/163 (s); AMS 5580, ASTM B163/516/517(w)

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Materials		Product Standards		
Grade		Plate/sheet/strip/coil	Bar/rod	Pipe/tube
Inconel 625/ (Haynes 625)	UNS N06625	AMS 5599, ASTM B443	AMS5666, ASTMB446	AMS5581,ASTMB444(s); AMS5581,ASTMB704/705(w)
Inconel 718	UNS N07718	AMS5596/5597, ASTM B670	AMS5662/5564, ASTM B637	AMS 5589/5590(s)
Inconel X750	UNS N07750	AMS5542, AMS5598	AMS5667/5670/ 5671,ASTM B637	AMS 5582, AMS5583(s), AMS 5582, AMS5583(w),
Inconel 617	UNS N06617	ASTM B168	ASTM B166	ASTM B167/82
Incoloy 825	UNS N08825	ASTM B424	ASTM B425	ASTM B423/163(s); ASTM B163/704/705(w)
Incoloy 800	UNS N08800	AMS 5871, ASTM B409	ASTM B408	ASTM B163/407(s), ASTM B163(w)
Incoloy 926	UNS N08926	ASTM B625	ASTM B649	ASTM B677(s); ASTMB673/674(w)
IncoloyA286 (GH2132)	UNS S66286	AMS 5525/5735	AMS 5731/5732/ 5737/5726/5804	-
Monel 400	UNS N04400	AMS 4554 ASTMB127,	AMS4675/4730, ASTM B164	ASTM B161/163/164(s)
Monel K500	UNS N05500	ASTM B127/865	AMS 4676	ASTM B165
GH3128	UNS S31008	ASTM A240; AMS 5664	ASTM A276, B160/164/166/4 08/425/574; AMS 5663	ASTM A269
GH4738	UNS N07001	ASTM B637	AMS 5793	-
Alloy 31	UNS N08031	ASTM B625	ASTM B581/649	ASTM B622(s); ASTM B619/626(w)
Titanium	GR1/2/ 3/5/7/ 9/12	ASTM B265, ASTM F136/ F67, AMS4928	ASTM B348 ASTM F67/F136, AMS4928	ASTMB337/388, AMS4941/4942/4943

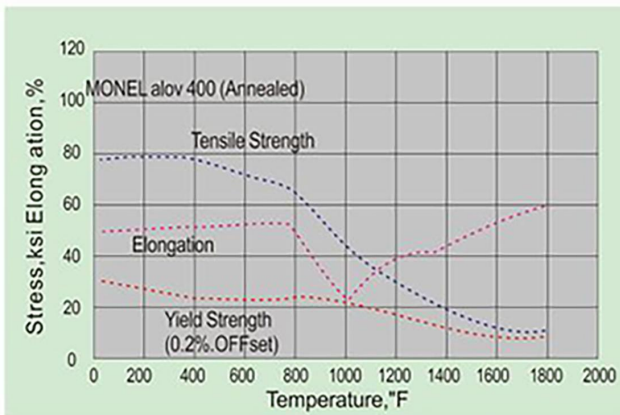
Remarks: Here are only parts of materials grades, all can be customized.

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## Quality Control

SO OUTER takes "Quality is life and integrity is foundation." as the management principle. Inspect and test raw materials strictly to keep Mechanical properties and Chemical composition in good state to meet clients' needs and requirements. Control each process from production to dispatch diligently. Our active and creative R&D center and technical team are in close work with each order.



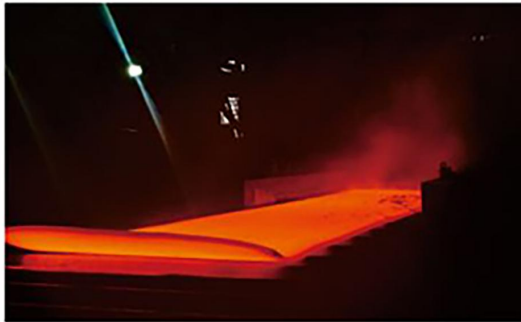
Guide to Corrosion Resistance (★ = good to excellent, ※ = Acceptable, -- = Not suitable)

Alloy	Sulfuric Acid	Hydrochloric Acid	Hydrofluoric Acid	Phosphoric Acid	Nitric Acid	Organic Acids	Alkaline & Salts	Sea-water
Monel 400	★	※	★	★	--	★	★	★
MonelK500	★	※	★	★	--	★	★	★
Inconel 625	★	★	★	★	★	★	★	★
Inconel 718	※	※	※	※	※	★	★	★
Incoloy 825	★	★	★	★	★	★	★	★
Hastelloy C276	★	★	★	★	※	★	★	★
Hastelloy G3	★	★	★	★	★	★	★	★

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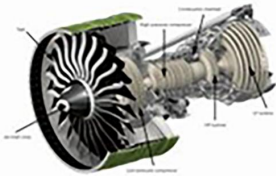
**Production Equipment****Vacuum Induction Melting****Electroslag Remelting (ESR)****Forging****Flattening Machine****Rolling****Heat treatment furnace**

Excellent Products depend on the developed technology and experienced production and technical teams. SOOUTER does R & D in special alloy materials constantly and looks for a long-lasting and reliable cooperation.

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**Products Application**



**Aerospace-Gas Turbine**



**Seawater Desalination**



**Petrochemical Device**



**Paper&Pulp Bleach Plant**



**FGD System**



**Power Plant**



**Pressure Vessel**



**Heat Exchanger**



**Nuclear Reactor**



**Offshore Platform**



**Submarine**



**Medical Instrument**

Super alloy materials are used in many fields and promote the industry development.

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**▶▶▶▶ Clients**

SO OUTER is a high-tech enterprise specializing in R&D, manufacturing and sales of super alloy materials with an annual production and processing capacity of 3,000 tons. And the annual capacity will reach 10,000 tons with the business expansion. The company has clients at home and abroad. With experienced export experiences, professional technical services, sales services and rich management, SO OUTER is able to provide long-lasting cooperation and meet clients' needs and requirements.



C3  
希斯芮 中信机电



**SULZER**

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SO OUTER(ANHUI)NEW MATERIALS CO.,LTD.

- Corrosion resistance
- High temperature resistance
- Wear resistance
- Oxidation resistance
- Pressure resistance

**Plates/Sheets/Strips/Coils/Bars/Rods/Flanges**  
**Pipes/Tubes/Pipe fittings/Filler wires/Welding rods**

安徽省六安市裕安区平桥乡平桥工业园  
Pingqiao Industrial Park, Pingqiao Town, Yu' an District, Lu' an City, Anhui Province, P.R, China.