



Shanghai COCESS Special Alloys Co., Ltd.

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Leading Solution Supplier of High-Temperature-Resistant Alloys and Corrosion-Resistant Alloys

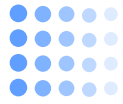
A photograph of a space shuttle launching from a launch pad. The shuttle is ascending vertically, leaving a large, billowing plume of white and orange smoke and fire. The launch pad structure is visible on the left side of the frame. The sky is a clear, pale blue.

Contents

- **Company Profile**
- **Available Alloy Grades**
- **Product Categories**
- **Process Flow**
- **Quality Control**
- **Application Fields**
- **Contact Us**

01

Company Profile



Company Profile

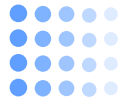
Shanghai COCESS Special Alloys Co., Ltd. is a technology-driven enterprise dedicated to the research, development, production, and supply of high-performance special alloy materials.

With years of accumulated experience, COCESS Special Alloys has built a strong foundation in smelting, heat treatment, forging, rolling, machining, physical and chemical analysis, and non-destructive testing of various special alloy materials including nickel-based high-temperature alloys, cobalt-based high-temperature alloys, nickel-based corrosion-resistant alloys, nickel-based precision alloys, and nickel-based shape memory alloys. From material selection to processing technology, COCESS Alloys provides customers with scientific solutions and excellent product services.

At COCESS Alloys, the available nickel alloy product categories include tubes and pipes, rods and bars, plates, sheets and strips, wires and welding wires, flanges and forgings, pipe fittings, valves, and fasteners, which are designed to withstand harsh working environments that require corrosion resistance, high temperature resistance, and high pressure resistance. These products are widely used in a diverse range of industries, such as aerospace, oil and gas, chemical processing, nuclear power, marine engineering, biopharma, and many other fields.



Guided by the development philosophy of "driving growth with quality and innovation," Shanghai COCESS Special Alloys Co., Ltd. is committed to supplying and promoting the application of high-performance special alloy materials, contributing to environmental protection, energy conservation, and sustainable development. Our vision is to become a premier supplier of nickel alloy materials and a provider of comprehensive application solutions. Upholding the cooperation principle of "customer first, integrity-based," COCESS Alloys welcomes clients and partners from around the world to explore more business opportunities.



Company Advantages

Technical Strength

COCESS is a technology-driven enterprise focused on high-performance special alloy materials. The company has accumulated extensive experience in various production processes for a range of special alloys.

Solutions and Product Services

COCESS provides customers with scientific solutions and excellent product services. The company's nickel alloy product portfolio covers a wide range of forms to meet diverse industry needs.

Operation Philosophy

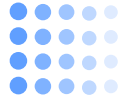
COCESS is guided by a "quality and innovation" philosophy, committed to supporting environmental protection and sustainable development.

The company's vision is to be a premier supplier of nickel alloy materials and comprehensive application solutions.

COCESS adheres to a "customer first, integrity-based" cooperation principle and welcomes global partners.

02

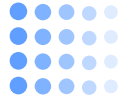
Alloy Grades and Specifications



Available Alloy Grades

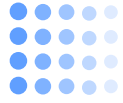
| Commercial Name | | Material Grades | | |
|-----------------|------------------|-----------------|--------|-----------------|
| | | GB/T | UNS | W.Nr. |
| Pure Nickel | Nickel 200 | N6 | N02200 | 2.4060 & 2.4066 |
| | Nickel 201 | N4 | N02201 | 2.4061 & 2.4068 |
| Hastelloy | Hastelloy C-276 | NS3304 | N10276 | 2.4819 |
| | Hastelloy C-22 | NS3308 | N06022 | 2.4602 |
| | Hastelloy C-2000 | NS3405 | N06200 | 2.4675 |
| | Hastelloy C-4 | NS3305 | N06455 | 2.4610 |
| | Hastelloy B-2 | NS3202 | N10665 | 2.4617 |
| | Hastelloy B-3 | NS3203 | N10675 | 2.4600 |
| | Hastelloy G-30 | NS3404 | N06030 | 2.4603 |
| | Hastelloy X | GH3536 | N06002 | 2.4665 |
| | Inconel | Inconel 600 | NS3102 | N06600 |
| Inconel 601 | | NS3103 | N06601 | 2.4851 |
| Inconel 625 | | NS3306 | N06625 | 2.4856 |
| Inconel 690 | | NS3105 | N06690 | 2.4642 |
| Inconel 718 | | GH4169 | N07718 | 2.4668 |
| Inconel X-750 | | GH4145 | N07750 | 2.4669 |
| Monel | Monel 400 | NCu30 | N04400 | 2.4360 |
| | Monel K-500 | NCu30-3-0.5 | N05500 | 2.4375 |

| Commercial Name | | Material Grades | | |
|--------------------|--------------------|-----------------|-----------------|-----------------|
| | | GB/T | UNS | W.Nr. |
| Incoloy | Incoloy 800 | NS1101 | N08800 | 1.4876 |
| | Incoloy 800H | NS1102 | N08810 | 1.4958 |
| | Incoloy 800HT | | N08811 | 1.4959 |
| | Incoloy 825 | NS1402 | N08825 | 2.4858 |
| | Incoloy 925 | | N09925 | 2.4852 |
| | Incoloy 20 | NS403 | N08020 | 2.4660 |
| Nimonic | Nimonic 75 | GH3030 | N06075 | 2.4951 & 2.4630 |
| | Nimonic 80A | GH4080A | N07080 | 2.4952 & 2.4631 |
| | Nimonic 90 | GH4090 | N07090 | 2.4632 |
| | Nimonic 263 | GH4163 | N07263 | 2.4650 |
| Waspaloy | Waspaloy | GH4738 | N07001 | 2.4654 |
| Cobalt-base alloys | Haynes 188 | GH5188 | R30188 | |
| | Haynes 25 | GH5605 | R30605 | |
| Precision alloys | NILO 36 (Invar 36) | 4J36 | K93600 & K93601 | 1.3912 |
| | NILO 42 | 4J42 | K94100 | 1.3917 |
| | NILO K (Kovar) | 4J29 | K94610 | 1.3981 |



Standard Specifications

| Commercial Name | UNS Designation | ASTM Standard Specification | | | | | | |
|------------------|-----------------|-----------------------------|-------------|-------------------|---------|----------------|---------------|---------------|
| | | Seamless Pipe | Welded Pipe | Plate/Sheet/Strip | Rod/Bar | Forging | Wire | Pipe Fittings |
| Nickel 200 | N02200 | B161/B163 | B725/B730 | B162 | B160 | B564 | | B366 |
| Nickel 201 | N02201 | B161/B163 | B725/B730 | B162 | B160 | | | B366 |
| Hastelloy C-276 | N10276 | B622 | B626/B619 | B575 | B574 | B564/B472/B462 | B574 | B366 |
| Hastelloy C-22 | N06022 | B622 | B626/B619 | B575 | B574 | B564/B472/B462 | | B366 |
| Hastelloy C-2000 | N06200 | B622 | B626/B619 | B575 | B574 | B564/B472/B462 | | B366 |
| Hastelloy C-4 | N06455 | B622 | B626/B619 | B575 | B574 | | | B366 |
| Hastelloy B-2 | N10665 | B622 | B626/B619 | B333 | B335 | B564/B472/B462 | | B366 |
| Hastelloy B-3 | N10675 | B622 | B626/B619 | B333 | B335 | B564/B472/B462 | | B366 |
| Hastelloy G-30 | N06030 | B622 | B626/B619 | B582 | B581 | B472/B462 | | B366 |
| Hastelloy X | N06002 | B622 | B626/B619 | B435 | B572 | AMS 5754 | | B366 |
| Inconel 600 | N06600 | B167/B163 | B516/B517 | B168 | B166 | B564 | B166 | B366 |
| Inconel 601 | N06601 | B167/B163 | B516 | B168 | B166 | | B166 | |
| Inconel 625 | N06625 | B444 | B704/B705 | B443 | B446 | B564 | | B366 |
| Inconel 690 | N06690 | B167/B163 | B516 | B168 | B166 | B564 | B166 | |
| Inconel 718 | N07718 | B983 | | B670/B906 | B637 | B637 | B637 | / |
| Inconel X-750 | N07750 | | | AMS 5542/5598 | B637 | B637 | AMS 5698/5699 | / |



Standard Specifications

| Commercial Name | UNS Designation | ASTM Standard Specification | | | | | | |
|--------------------------|-----------------|-----------------------------|-------------|-------------------|----------|-----------|----------|---------------|
| | | Seamless Pipe | Welded Pipe | Plate/Sheet/Strip | Rod/Bar | Forging | Wire | Pipe Fittings |
| Monel 400 | N04400 | B165/B163 | B725/B730 | B127 | B164 | B564 | B164 | B366 |
| Monel K-500 | N05500 | / | / | | B865 | B865 | B865 | / |
| Incoloy 800 | N08800 | B407/B163 | B515/B514 | B409 | B408 | B564 | | B366 |
| Incoloy 800H | N08810 | B407/B163 | B515/B514 | B409 | B408 | B564 | | B366 |
| Incoloy 800HT | N08811 | B407/B163 | B515/B514 | B409 | B408 | B564 | | B366 |
| Incoloy 825 | N08825 | B423/B163 | B704/B705 | B424 | B425 | B564 | | B366 |
| Incoloy 925 | N09925 | | | | B637 | B637 | | |
| Incoloy 20 | N08020 | B729 | B468/B464 | B463 | B473 | B472/B462 | B473 | B366 |
| Nimonic 80A | N07080 | | | | B 637 | B637 | B637 | |
| Nimonic 90 | N07090 | | | | AMS 5829 | AMS 5829 | AMS 5829 | |
| Nimonic 263 | N07263 | | | AMS 5872 | | | | |
| Waspaloy | N07001 | | AMS 5586 | AMS 5544 | B637 | B637 | | |
| Haynes 188 | R30188 | | | AMS 5608 | AMS 5772 | | | |
| Haynes 25 (L-605) | R30605 | | | AMS 5537 | AMS 5759 | | | |
| NILO alloy 36 (Invar 36) | K93600 | | | B388 & B753 | | | | |
| NILO alloy 42 | K94100 | F30 | F30 | B753/F30 | F30 | | F30 | |
| NILO alloy K (Kovar) | K94610 | F15 | F15 | F15 | F15 | AMS 7727 | F15 | |

03

Product Categories



Seamless Pipes & Tubes

Welded Pipes & Tubes

Seamless Pipe & Tube

Outer Diameter: 6-530 mm

Wall Thickness: 1-50 mm

Small-diameter Seamless Capillary Tube

Outer Diameter: 0.5-6 mm

Wall Thickness: 0.07-1.5 mm

Welded Tube & Pipe

Outer Diameter: 6-530 mm

Wall Thickness: 1-50 mm

Delivery Condition:

Solution annealed, stabilized, precipitation harden (age harden)

Surface Finishing:

Pickling, bright annealing, polishing, sandblasting





Rods & Bars

Diameter: 6-350 mm

Delivery Condition:

Solution annealed, stabilized, precipitation harden (age harden)

Surface finishing:

Black (mill finish), turning, peeling, grinding, polishing

Shapes:

Round bar, flat bar, square bar, hexagon bar



Plates/Sheets/Strips

Cold Rolled Plates & Sheets

Thickness: 0.5-4 mm
Max. Width: 1000 mm
Max. Length: 2000 mm

Hot Rolled Plates & Sheets

Thickness: 4-22 mm
Max. Width: 1000 mm
Max. Length: 2000 mm

Cold Rolled Strips

Thickness: 0.15-4 mm
Max. Width: 200 mm

Hot Rolled Strips

Thickness: 4-22 mm
Max. Width: 200 mm

Delivery Condition:

Solution annealed, stabilized, precipitation harden (age harden)

Surface finishing: Pickled, bright annealing, polishing





Wire



Precision wires

Diameter: 0.2-1 mm

Round Wires

Diameter: 1-15 mm

No-circular Wires

Negotiable

Delivery Condition:

Annealed, soft annealed, soft, hard, half-hard

Surface Finishing:

Polishing



Flanges & Forgings

Types of Flange:

Weld Neck Flange
Slip On Flange
Socket Weld Flange
Lap Joint Flange
Threaded Flange
Blind Flange

Dimensions:

NPS 1/2-24 inch
Class 150-2500 psi

Standard Specification:

ASTM B 16.5

Forgings:

According to client's requirements or design





Pipe Fittings



Types of Buttwelding Fittings

- Long Radius Elbows
- Long Radius Reducing Elbows
- Long Radius Returns
- Short Radius Elbows
- Short Radius 180-deg Returns
- 3D Elbows
- Straight Tees and Crosses
- Reducing Outlet Tees
- Reducing Outlet Crosses
- Lap Joint Stub Ends
- Caps
- Reducers

Size

Size: 1/2"-48"

Wall thickness: SCH5S-SCHXXS

Standard Specification

ASME B16.9



Bolts & Nuts

Hex Bolts

Size: M5 × 0.8 to M100 × 6

Specification: ASME B18.2.3.5M-1979 (R2006)

Heavy Hex Bolts

Size: M12 × 1.7-M36 × 4

Specification: ASME B18.2.3.6M-1979 (R2006)

Continuous-Thread Studs

Size: M5-M100

Specification: ASME B18.31.1M-2008

Double-end Studs

Size: M6-M100

Specification: ASME B18.31.1M-2008

Hex Nuts, Style 1

Size: M1.6 × 0.35-M36 × 4

Specification: ASME B18.2.4.1M - 2002 (R2007)

Heavy Hex Flat Nuts:

Size: M12 × 1.75 to M100 × 6

Specification: ASME B18.2.4.6M - 2010

Plain Washers/Flat Washers

Size: Nominal Washer Size 1.6-36

Specification: ANSI B18.22M-1981

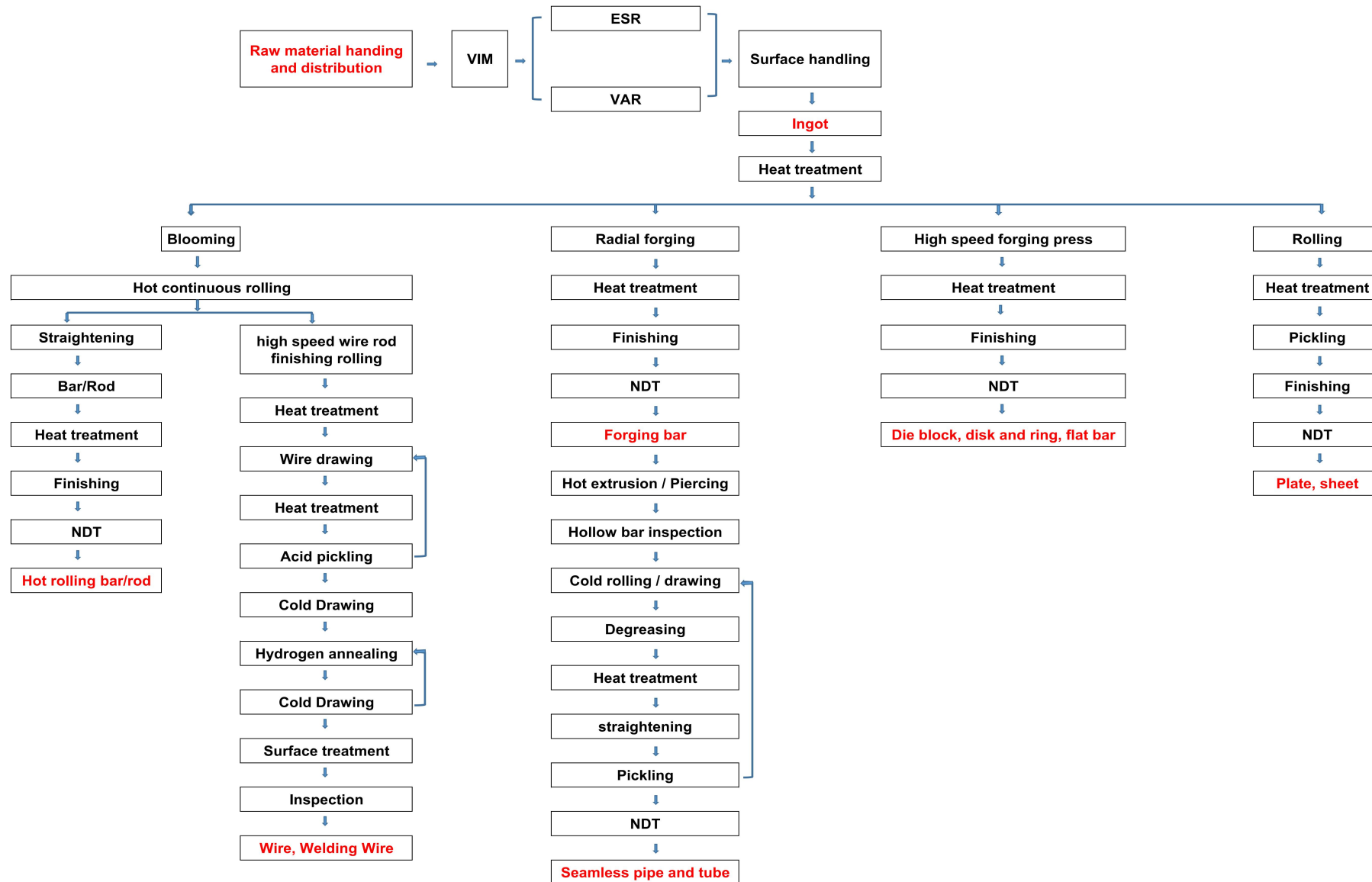


04

Process Flow



Process Flow





Company Certificates



ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE Registration No.02120E10534R3M

This is to certify that the environmental management system of

Shanghai COCESS Special Alloys Co., Ltd.

Registration/Office/Production Address: social credit code: 91310117MACBANPW71
No.599 Zhongming Road, Maogang Town, Songjiang City, Shanghai, P.R.China

is in conformity with

GB/T 24001-2016/ISO 14001:2015

This certificate is valid for the following scope:

Production and related management activities of high-temperature alloy, high-resistance alloy for electrical heating, heat-resistant steel, stainless steel, precision alloy steel, high-speed tool steel, nickel-based high-temperature alloy precision casting, ceramic core for precision casting, nickel-based high-temperature alloy seamless steel pipe and stainless steel seamless pipe (except the products requiring the qualification)

This certificate is valid from August 27, 2023 to August 26, 2026

The scope which needs administrative permission shall be in accordance with valid license. In the case that the organization regularly receives surveillance assessments, the certificate shall be valid when used together with the Notice for Maintenance of Use of Certificates and Logos. Information about the certificate can be queried on the official website of CNCA (www.cnca.gov.cn).

Huaxia Certification Center, Inc.

At: all 1 Beishuan Zhonglu, District, Shanghai, P.R.China
http://www.cccy.com.cn



General Manager:

Date of Issue: August 27, 2023



中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C021-M



ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE Registration No.02120E10534R3M

This is to certify that the environmental management system of

Shanghai COCESS Special Alloys Co., Ltd.

Registration/Office/Production Address: social credit code: 91310117MACBANPW71
No.599 Zhongming Road, Maogang Town, Songjiang City, Shanghai, P.R.China

is in conformity with

GB/T 24001-2016/ISO 14001:2015

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Production and related management activities of high-temperature alloy, high-resistance alloy for electrical heating, heat-resistant steel, stainless steel, precision alloy steel, high-speed tool steel, nickel-based high-temperature alloy precision casting, ceramic core for precision casting, nickel-based high-temperature alloy seamless steel pipe and stainless steel seamless pipe (except the products requiring the qualification)

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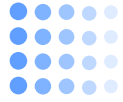


General Manager:

Date of Issue: August 27, 2023



中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C021-M



Company Certificates



OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATE
Registration No.02120S10318R3M

This is to certify that
the Occupational Health and Safety Management System of

Shanghai COCESS Special Alloys Co., Ltd.

social credit code:91310117MACBANPW71
Registration/Office/Production Address:No.599 Zhongming Road,Maogang Town,Songjiang City,Shanghai,P.R.China

is in conformity with

GB/T 45001-2020/ISO 45001:2018

This certificate is valid for the following scope:

Production and related management activities of high-temperature alloy,high-resistance alloy for electrical heating,heat-resistant steel,stainless steel,precision alloy steel, high-speed tool steel,nickel-based high-temperature alloy precision casting,ceramic core for precision casing,nickel-based high-temperature alloy seamless steel pipe and stainless steel seamless pipe (except the products requiring the qualification)

This certificate is valid from August 27,2023 to August 26,2026
The scope which needs administrative permissions shall be in accordance with valid license.
In the case that the organization regularly receives surveillance assessments,the certificates shall be valid when used together with the Notice for Maintenance of Use of Certificates and Logos.
Information about the certificate can be queried on the official website of CNCA(www.cnca.gov.cn).



Huanan Certification Center, Inc.
A: Toli Commercial Building 201111 Beihuan Zhonglu, Haidian District, Beijing, P.R. China
http://www.cnca.gov.cn

General Manager

Date of Issue: August 27, 2023



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SYSTEM
CNAS C021-M



国家企业信用信息公示系统网址: <http://www.gsx.gov.cn>

市场主体应当于每年1月1日至6月30日通过国家企业信用信息公示系统报送公示年度报告。

国家市场监督管理总局监制

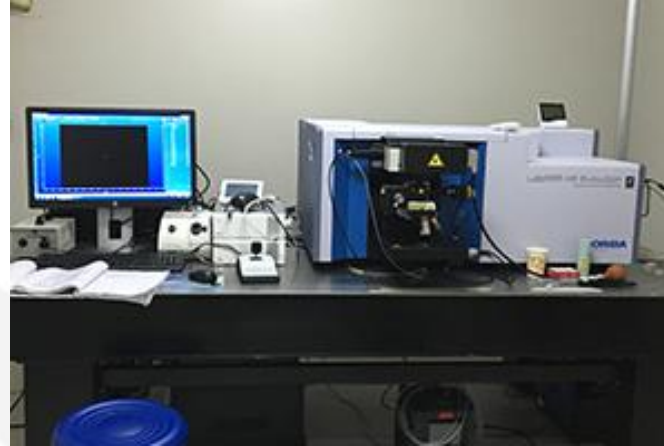
05

Quality Control

Testing equipment



Ultrasonic Testing



Spectrometer



Metallographic Microscope



Intergranular Corrosion Testing



Rapid Annealing Furnace

Testing equipment



Tensile Testing Machine



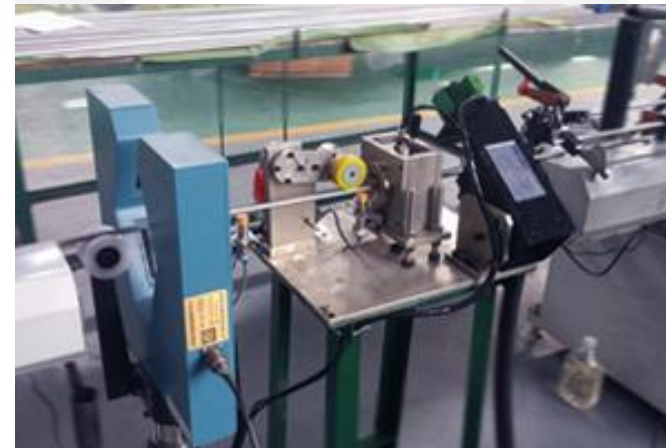
Rockwell Hardness Tester



Endoscope



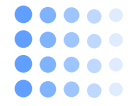
Handheld Spectrometer



Eddy Current Testing

06

Application Fields



Application Fields



Aerospace



Nuclear Power



Chemical Processing



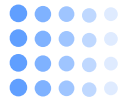
Military and Defense



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07

Contact Us



Contact Us

01



Office Location →

No. 201, Maoting Road,
Songjiang, Shanghai,
China

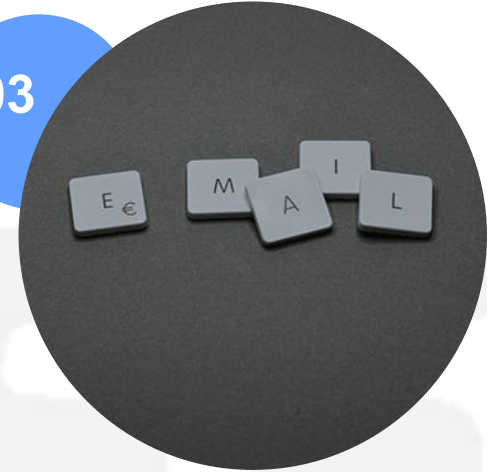
02



Phone Number →

+86 159 0052 6263

03



Email Address →

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