



BMJ METAL CO.,LTD.

Stainless Steel



Most Popular Stainless Steel
Supplier In China



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About Us



BMJ Metal CO., LTD is located in China's economy, transportation, science and technology, industry, finance, trade, exhibition and shipping center - Shanghai, with superior geographical location and convenient transportation. The total investment is 10 million RMB, with annual sales of RMB 300 million or more.

BMJ Metal is a large stainless steel enterprise which integrates the wholesale, surface processing, storage and distribution of stainless steel coil and plate.

The main products are the series of 200, 300, 400 stainless steel.

We have a set of 1400mm,20 roller reversing cold rolling mills, two sets of 800 reversing cluster cold rolling mills, shears 20 high sendzimir mill, continuous bright annealing furnaces, tension leveler, slitting machine and transverse shear and the related equipment. Variety of strips can be produced according to customer's demand, the thickness we produce is from 0.12 to 10mm, the maximum width is 1500mm.

Our factory also have the equipment for 8K mirror sheet, hairline sheet and attaching film. These machines can be used for slitting edge, shearing sheet, drawing the oil mill sheet, making 8K mirror or titanium sheet, embossing and etching sheet. We also have varieties of surface treatment for our products, like No. 1, 2D, 2B, BA, No.4, No.8 and PVD coloring etc Besides exporting stainless coils, we export stainless steel sheet, strip, pipe etc.

Now, we have established long-term and stable cooperative relations with Posco, Lisco, and Baosteel etc. Our products have been exported Bangladesh, Turkey, Switzerland, Australia, India, South Korea, the United States, Russia and so on.

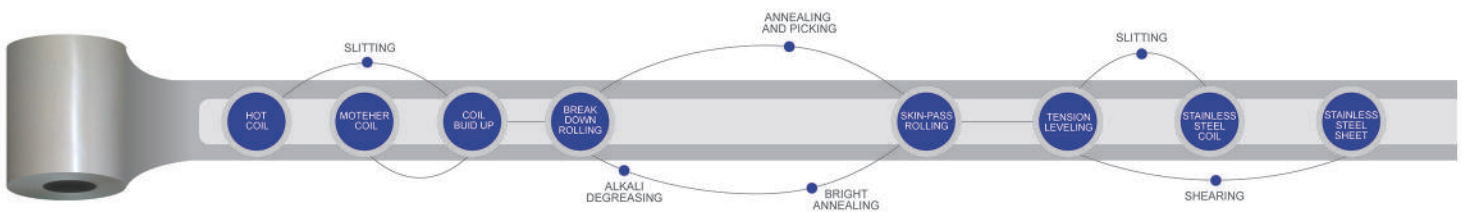
Our material is widely used in home appliances, kitchen supplies, medical equipment, auto parts, decorative tube, industrial pipe, chemical industry, petroleum, boilers, food industry and other industries.

We keep pace with the times, constantly consolidate our strength, improve the quality of our products, and continuously improve after-sales service. We are committed to provide our customers the most complete system of stainless steel products.

We would like to express our heartfelt thanks to these customers who care and support our company. We hope to establish long-term cooperation relationship with you.

Factory

20 High Rolling Sendzimir Mill

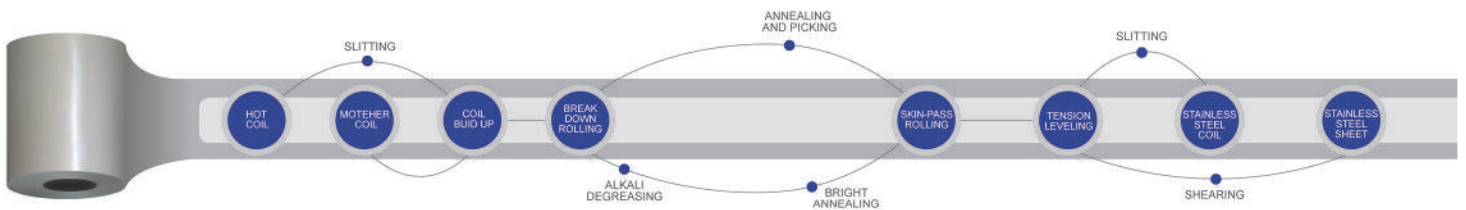


8 High Rolling Mill



Machinery

Cleaning Mill



Continuous Bright Annealing Furnace



Machinery

Factory

Factory and Machinery Equipment

⏏ Tension Leveler

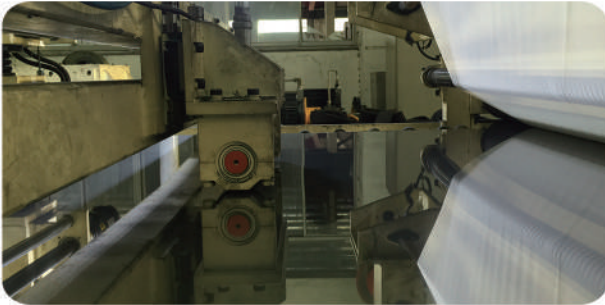


⏏ High Precision Slitting Line

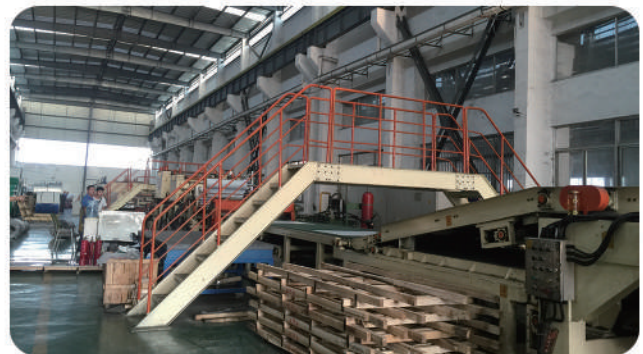
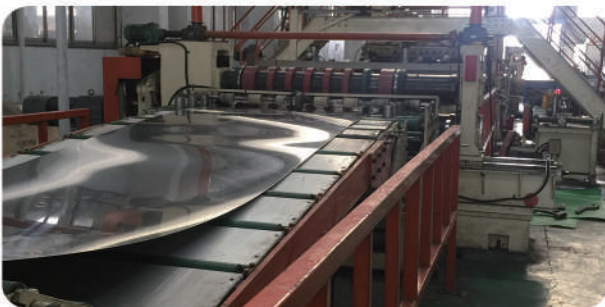


Factory and Machinery Equipment

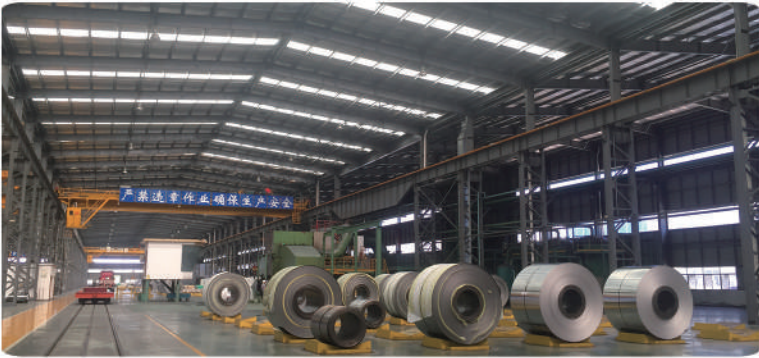
Grinding Machine

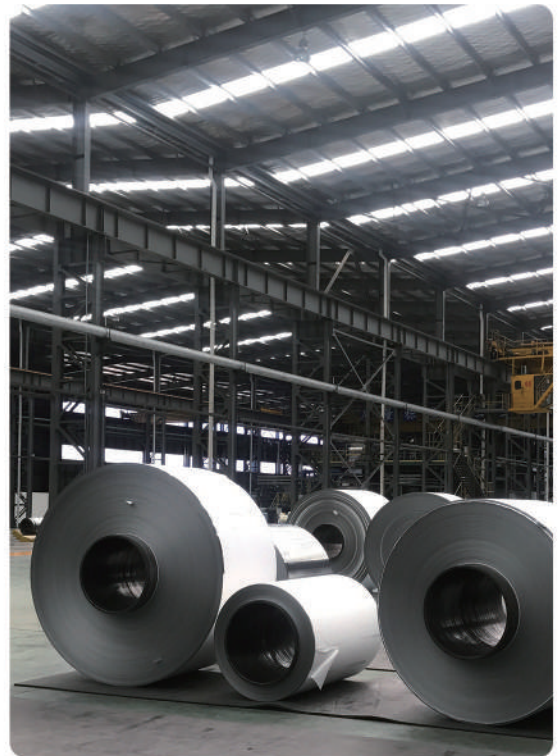


Decoiler Machine

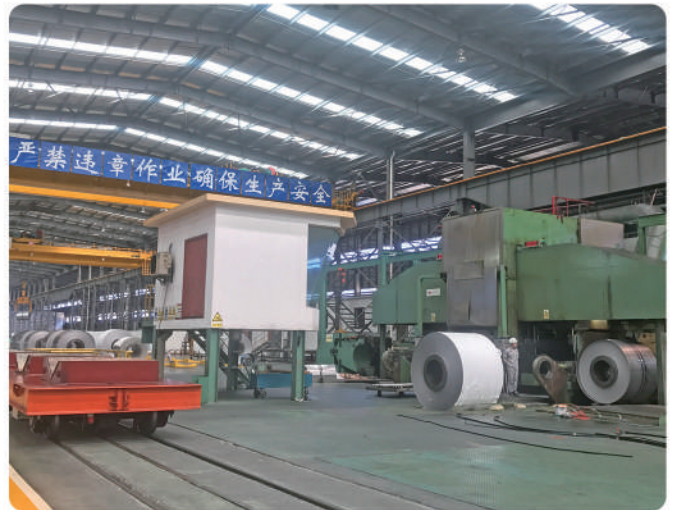


Factory





Factory



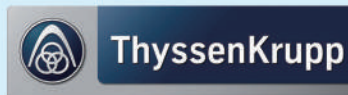


History

- In 1987, a construction company was established in Shangyu, Zhejiang.
- Between 1988 and 1999, he quickly established business in Shangyu and Shaoxing, Zhejiang Province, and obtained the qualification of super builder.
- In 1995, successfully developed the first real estate project - City Garden.
- In 1996, a real estate development company was established in Shanghai and renamed as Runji.
- In 2000, the business expanded to all parts of the country, developing high-end commercial housing, garden villas, shopping malls, schools, factories, etc., with an accumulated management area of nearly 20 million square meters, and won the title of Shanghai famous enterprise.
- In 2004, commercial real estate, including 5A intelligent office buildings, large shopping malls, etc.
- In 2008, diversified development, acquisition of Hong Kong Technology Co., Ltd., involved in medical equipment, equipment, scientific research and other fields.
- In 2010, Shaoxing Shangyu Baomingjia Metal Co., Ltd. was established in Shangyu, specializing in international trade of building materials and metal raw materials.
- In 2012, it invested in the Huzhou Jinye Group and entered the metal manufacturing industry.
- 2016: Baomingjia Metal (Hong Kong) Co., Ltd. was established.
- 2017: Shanghai Bangting (BT) Technology Co., Ltd. was established in Shanghai, specializing in aluminum products. Shaoxing Shangyu BMJ Metal Company changed its name to Zhejiang Baomingjia Metal Co., Ltd.
- Future: Dedicated to become a production and process , sales warehousing and logistics distribution professional manufacturing enterprise.



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Stainless Steel

Stainless Steel

It resists the corrosion of weakly corrosive media such as air, steam and water as well as chemically aggressive media such as acids, bases and salts. Also known as stainless acid-resistant steel.

In practical applications, steels resistant to weakly corrosive media are often referred to as stainless steel, while steels resistant to chemical media are referred to as acid-resistant steels. Due to the difference in chemical composition between the two, the former is not necessarily resistant to chemical media corrosion, while the latter usually has the property of not rusting.

The corrosion resistance of stainless steel depends on the alloying elements contained in the steel. Chromium is an essential element in the corrosion resistance of stainless steel. When the chromium content in the steel reaches about 1.2%, the chromium reacts with oxygen in the corrosive medium to form a thin oxide film (self-passivation film) on the steel surface. Further corrosion of the steel substrate can be prevented. In addition to chromium, commonly used alloying elements are nickel, molybdenum, titanium, tantalum, copper, nitrogen, etc., to meet the performance requirements of stainless steel structures and various applications.

Austenite:SUS430.

Martensite:SUS410,SUS420,SUS420J2,SUS416.

Ferrite:SUS201,SUS202,SUS301,SUS302,SUS304,SUS304L,SUS309S,SUS310,SUS310S,SUS316,SUS316L,SUS321.

Application

Household items (tableware, kitchen cabinets, stoves, indoor pipes, water heaters, boilers, bathtubs), auto parts, medical equipment, architectural decoration, chemicals, chemicals, food and beverage, agriculture, marine machinery, etc.

Exhaust pipe, heat treatment furnace, heat exchanger, marine industrial equipment, petrochemical, expansion joint, boiler cover, heat-resistant equipment parts, etc.

Stainless Steel Strip

Stainless Steel Strip

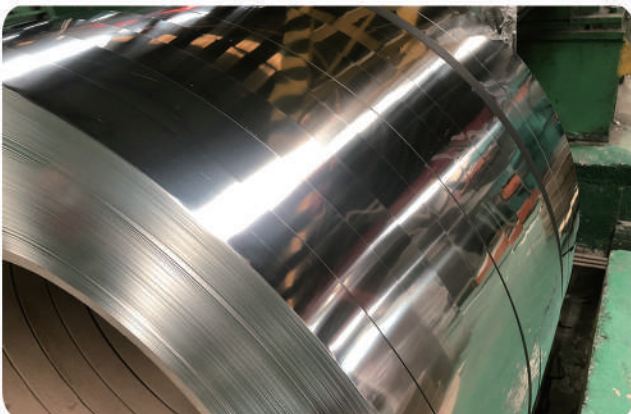
Thickness	0.04mm-3.0mm	
Thickness tolerance	<0.2mm	±0.05mm
	0.2mm~0.8mm	±0.10mm
	>0.8mm	±0.2mm
Width	2.0mm-600mm	
Width tolerance	<30mm	±0.10mm
	30mm~100mm	±0.20mm
	100mm~600mm	±0.50mm
	>600mm	±10%
Main Grade	201J1,201J3,201J4,304,304L,316,316L,321,430	
Standard	ASTMA240,JISG4304,JISG4305,GB/T4237,GB/T8165,BS1449,DIN17460,DIN1744	
Surface	2B, BA,Polish,No4, HL,Mirror finished with PVC film	

Density

Density	Density (g/cm3)
Stainless Steel Grade	7.93
201, 202 ,301,302,304,304L,305,321	7.98
405,410,420	7.75
409,430,434	7.7

Temper

Soft	150-220HV
1/4H	170-240HV
1/2H	220-290HV
3/4H	370-410HV
FH	420-550HV



Standard Package: Cardboard encase the ends of the coil, with core and out steel edge protection.

Strips are wrapped with metal strapped and packed in strong wooden pallets.

Special customized package is acceptable upon customers' request.



Application

Hose, Bellows, Flange, Packaging bag, Door, Window, Tableware, Panels, Decorative Tubes, lighting products,

Building materials, medical equipment, chemical industry, container fillers, food processing, automotive, metal stampings, etc.



Stainless Steel Coil

Stainless Steel Coil

Thickness	0.20mm-8.0mm
Width	1000mm/1219mm/1500mm/1800mm/2000mm
Tolerance	±0.02mm, Custom made
Main Grade	201J1,201J3,201J4,304,304L,316,316L,321,430
Standard	ASTMA240,JISG4304,JISG4305,GB/T4237,GB/T8165,BS1449,DIN17460,DIN1744
Surface	No.1, No.4, HL, 2B, BA, Mirror finished with PVC film

Density

Steel Grade	Density (g/cm3)
201, 202, 301,302,304,304L,305,321	7.93
309S,310S,316,316L,347	7.98
405,410,420	7.75
409,430,434	7.7

Temper

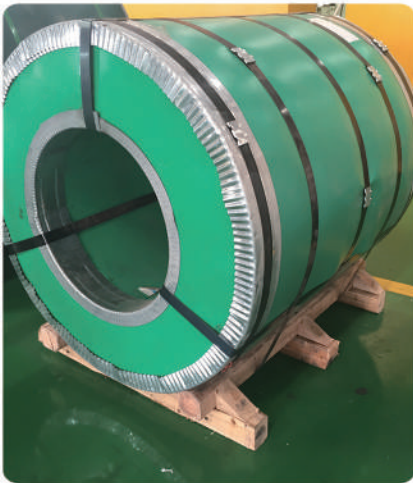
Soft	150-220HV
1/4H	170-240HV
1/2H	220-290HV
3/4H	370-410HV
FH	420-550HV



Standard Finish Protection: Paper interleaved, PE, PVC or Laser film are available.

Standard Package: Cardboard encase the ends of the coil, with core and outer steel edge protection.

Metal Straps are to be placed around coil and pallet timber, and align with metal edge protection Eye to Sky and Eye to Sides package are both acceptable Wooden Pallets or customized Pallets are acceptable.



Application

1. Automotive trim and molding, difficult-to-form exhaust-system components, tubular manifolds, mufflers, exhaust manifold and other exhaust-system components, catalytic converter shells, clamps .
2. Construction: Gutters and downspouts, roofing, siding.
3. Kitchenware: Cooking utensils, dishwashers, ovens, range hoods, refrigerators, skewers.
4. Chemical processing: Oil refinery equipment, oil burner and heater parts.
5. Appliances: Hot water tanks, residential furnaces.
6. Power generation: Heat exchanger tubing.
7. Farming: Dry fertilizer spreaders, Farm animal pens.



Stainless Steel Sheet

Stainless Steel Sheet

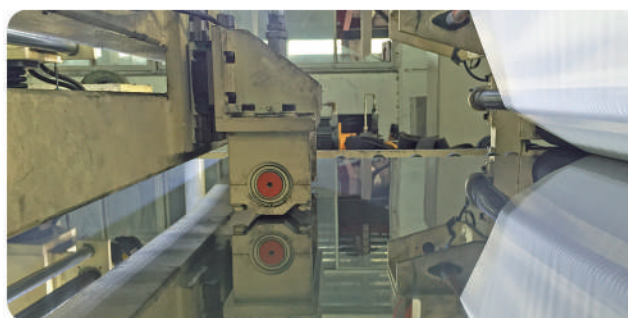
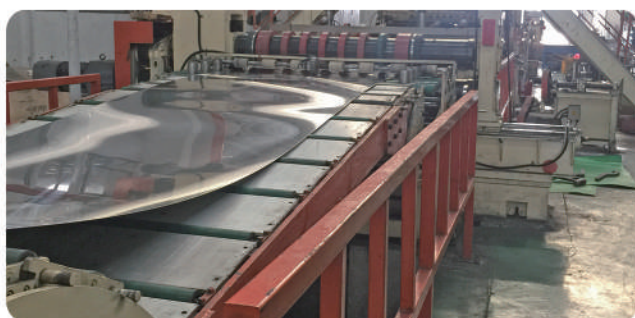
Thickness	0.30mm-80.0mm
Width	1000mm/1219mm/1500mm/1800mm/2000mm
Length	2000-8000mm or as customers' request
Tolerance	±0.02mm, Custom made
Main Grade	201J1, 201J3, 201J4, 304, 304L, 316, 316L, 321, 430
Standard	ASTMA240, JISG4304, JISG4305, GB/T4237, GB/T8165, BS1449, DIN17460, DIN1744
Surface	No.1, No.4, HL, 2B, BA, 4k, 6k, 8k, Mirror finished with PVC film

Density

Stainless Steel Grade	Density (g/cm3)
201, 202, 301, 302, 304, 304L, 305, 321	7.93
309S, 310S, 316, 316L, 347	7.98
405, 410, 420	7.75
409, 430, 434	7.7

Temper

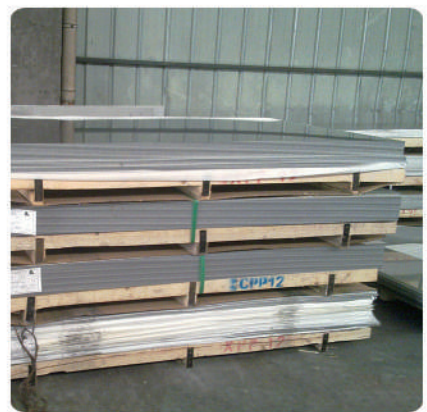
Soft	150-220HV
1/4H	170-240HV
1/2H	220-290HV
3/4H	370-410HV
FH	420-550HV



Standard Finish Protection: Paper interleaved, PE, PVC or Laser film are available.

Standard Package: Waterproof wrapping and cardboard encase all the pack of the sheets, with metal edge production for all top edges.

The strap aligned from bottom bearer to the top, with edge protection on all top corners that meets the sheets. Wooden Pallets or customized Pallets are acceptable. Metal Pallets are acceptable upon request.



Application

1. Escalator, Elevator, Doors
2. Furniture
3. Production tools, Kitchen appliances, freezers, cold rooms
4. Auto Parts
5. Machinery and Packaging
6. Equipment and Medical devices
7. Transport systems, oil containers
8. Food Trucks
9. Kitchen Walls



Stainless Steel Sheet

Original surface: NO.1 is the surface to be heat treated and pickled after hot rolling.

Blunt Surface: NO.2D is heat-treated and pickled after cold rolling. Its material is soft and the surface is silver-white luster.

Matte: NO.2B is heat-treated, pickled after cold rolling, and then finished with fine rolling to make the surface light.

Coarse sand: NO.3 is a product ground with a 100-120 grinding belt. It has better gloss and has discontinuous rough lines.

Fine sand: NO.4 is a product ground with a grinding belt of size 150-180. It has better gloss, has discontinuous rough lines, and is thinner than NO.3.

HAIRLINE: HL NO.4 produces a ground pattern by continuous grinding of a suitable size abrasive belt.

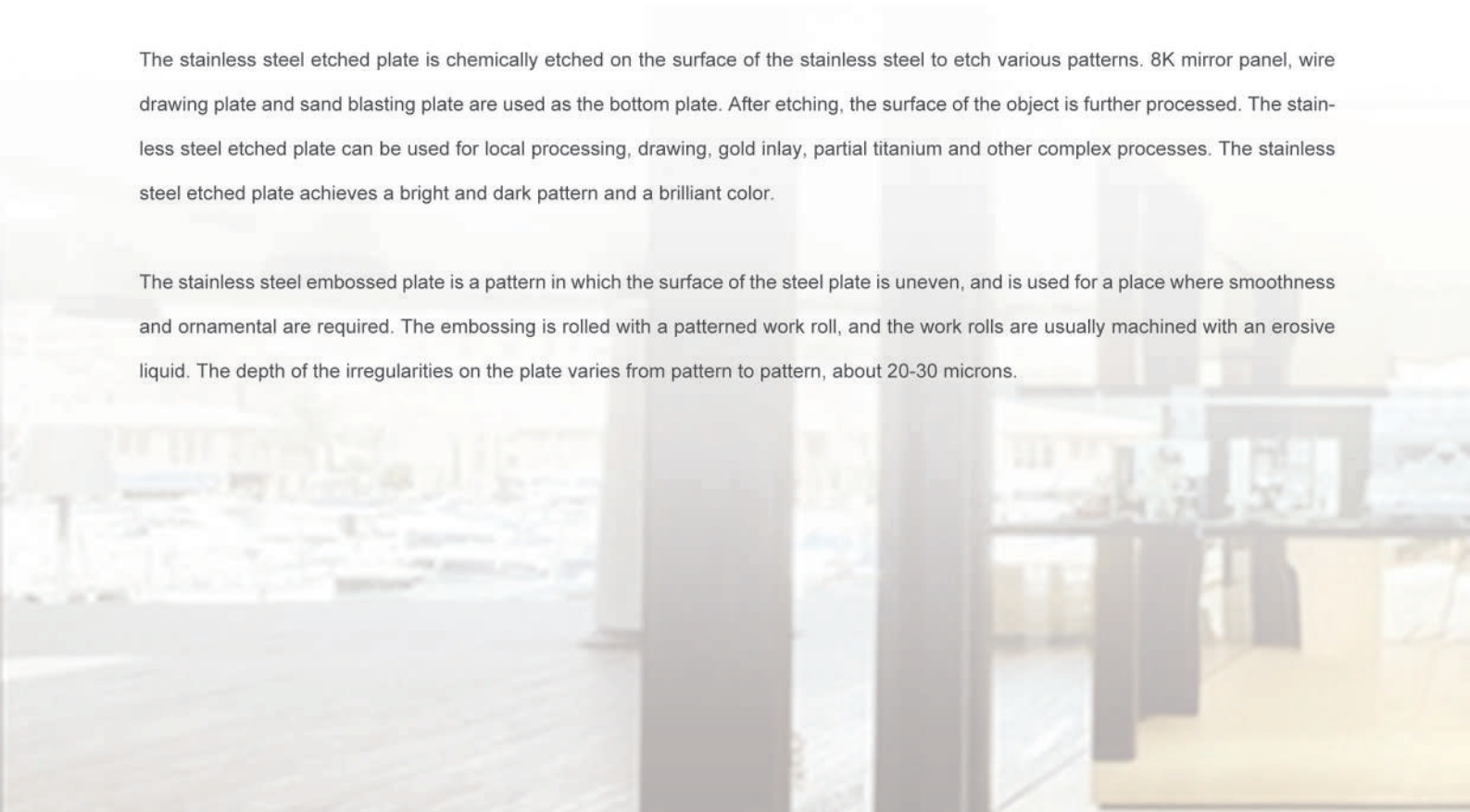
Glossy: BA is a product obtained by cold annealing and then bright annealing and flattening. The surface gloss is excellent and has a high reflectivity. Like a mirrored surface.

6K, the surface of the BA on the stainless steel market, has some brightness and can only blur numbers. 6K mirror is polished on the basis of BA

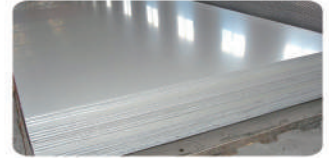
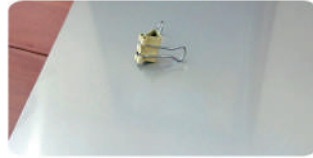
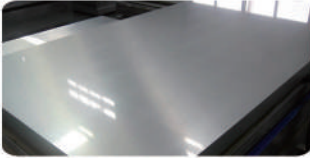
8K, the ordinary 8K mirror on the stainless steel market. The luminosity is more general, and the figure can be clearly displayed.

The stainless steel etched plate is chemically etched on the surface of the stainless steel to etch various patterns. 8K mirror panel, wire drawing plate and sand blasting plate are used as the bottom plate. After etching, the surface of the object is further processed. The stainless steel etched plate can be used for local processing, drawing, gold inlay, partial titanium and other complex processes. The stainless steel etched plate achieves a bright and dark pattern and a brilliant color.

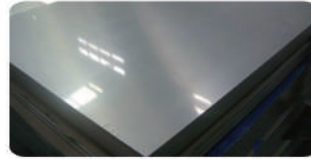
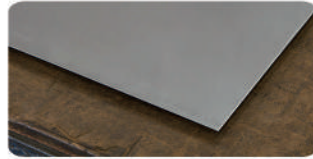
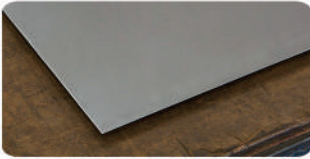
The stainless steel embossed plate is a pattern in which the surface of the steel plate is uneven, and is used for a place where smoothness and ornamental are required. The embossing is rolled with a patterned work roll, and the work rolls are usually machined with an erosive liquid. The depth of the irregularities on the plate varies from pattern to pattern, about 20-30 microns.



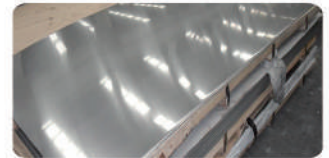
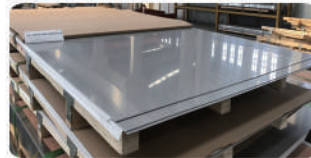
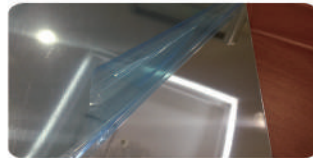
NO.1



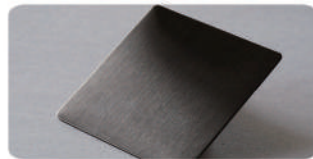
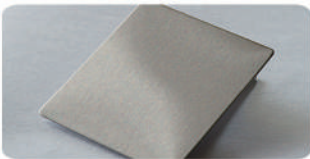
2D



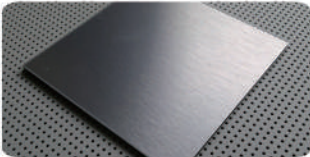
2B



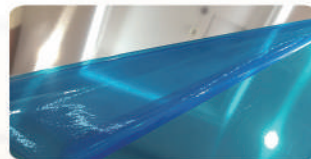
NO.4



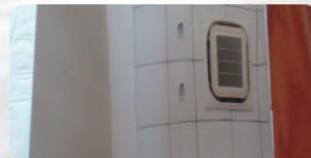
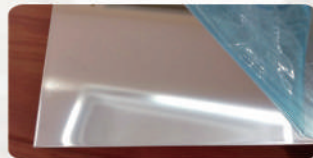
HL



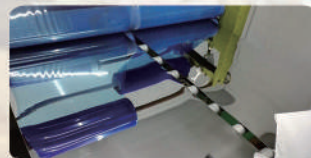
BA



6K

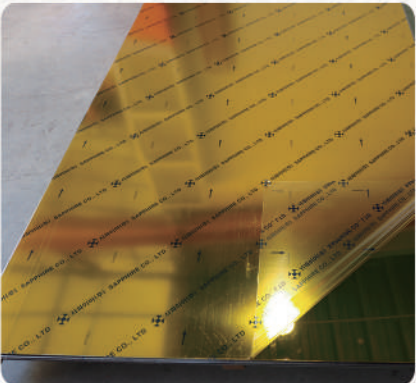
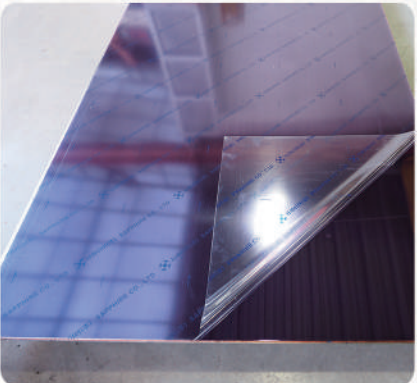
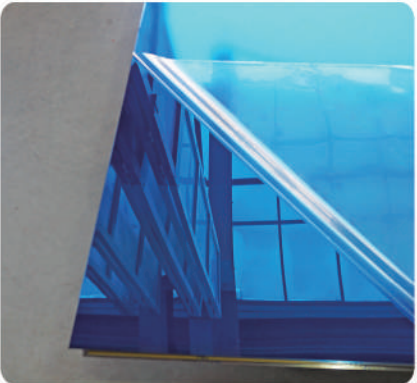
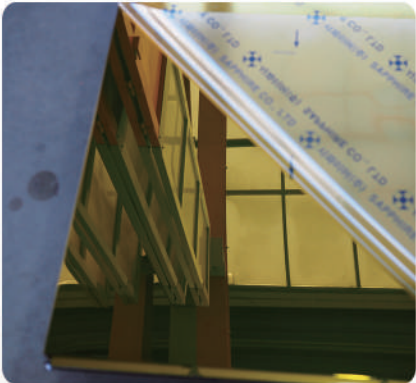
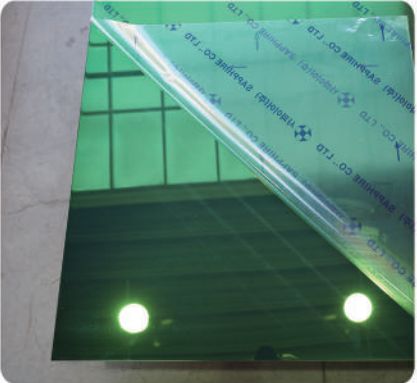
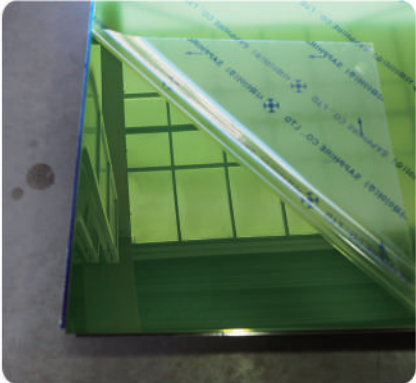


8K

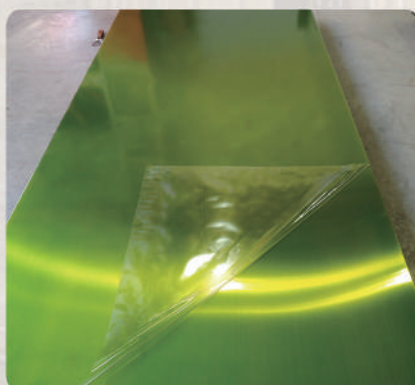
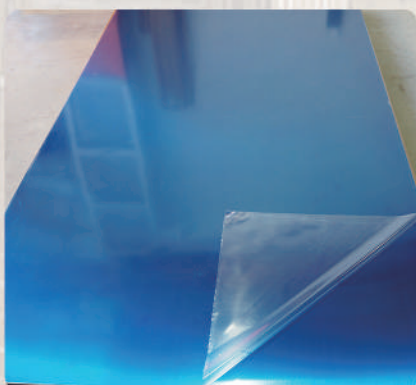
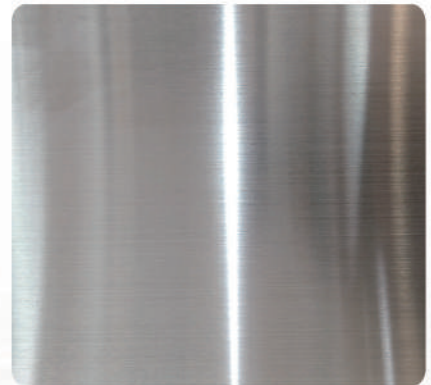
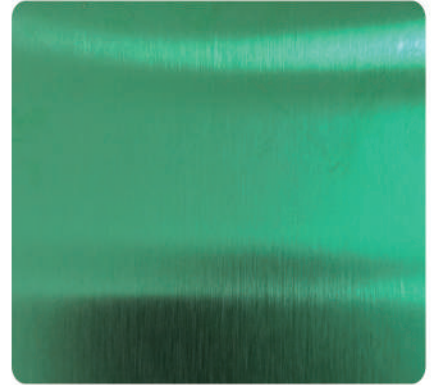
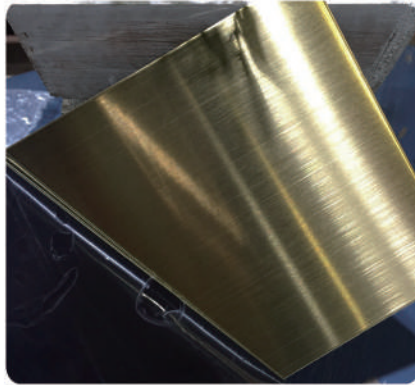
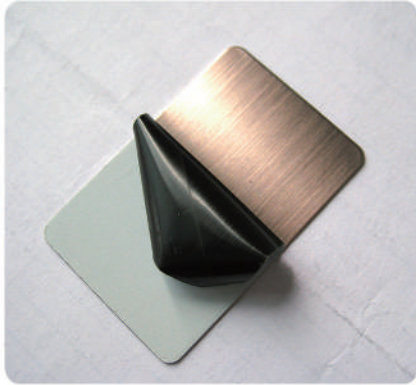


Decorative&Coloured Stainless Steel Sheet

Stainless Steel Sheet Mirror Finish

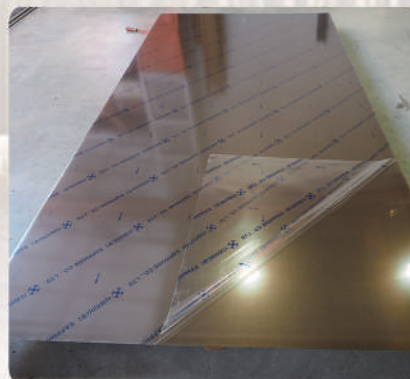
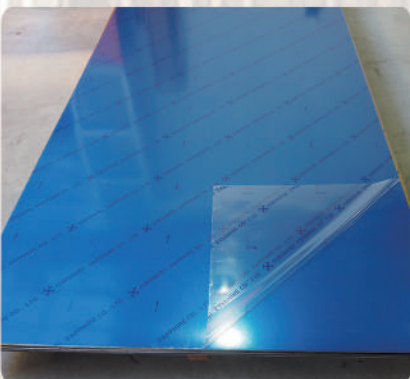
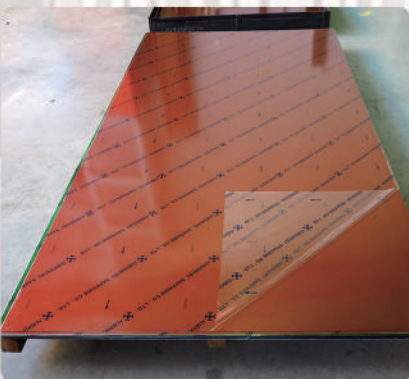
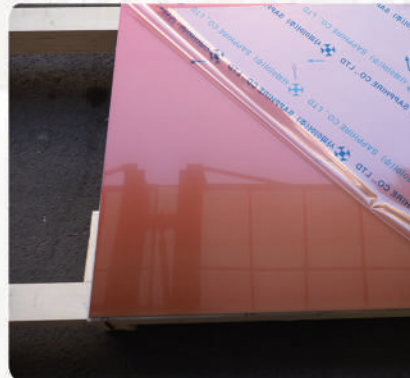
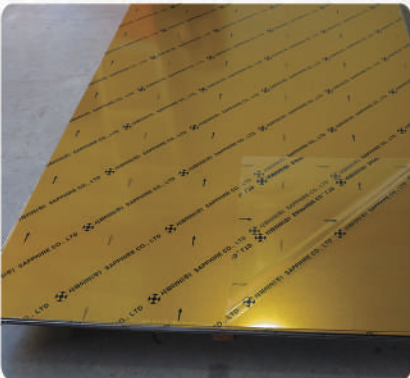
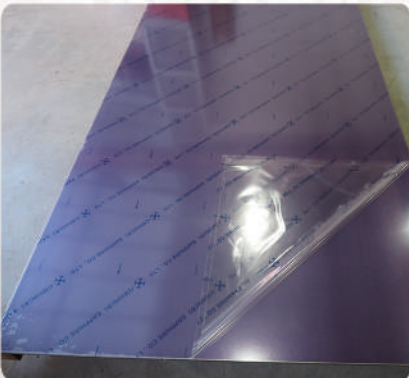
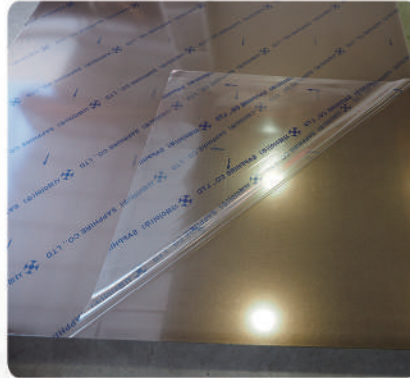
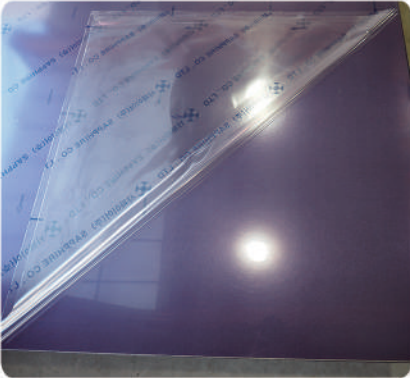
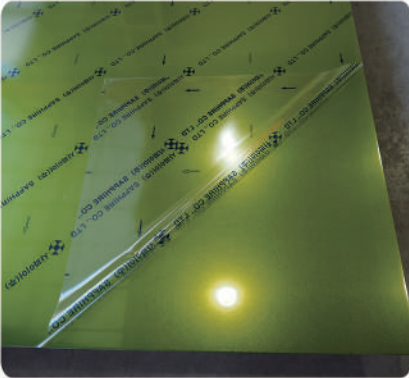
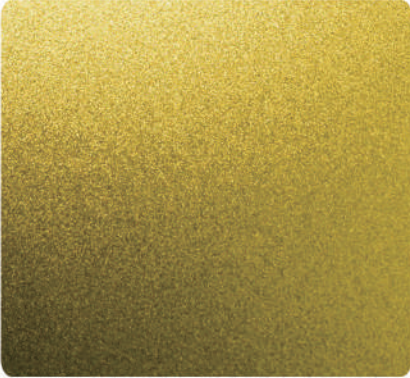


Color Stainless Steel Sheet Hariline Finish

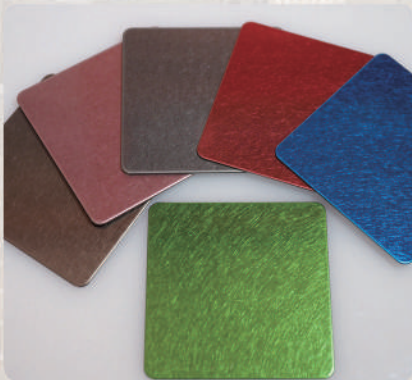
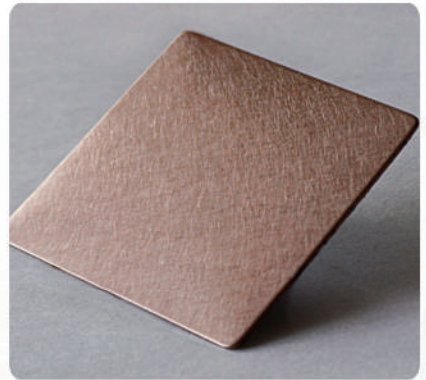
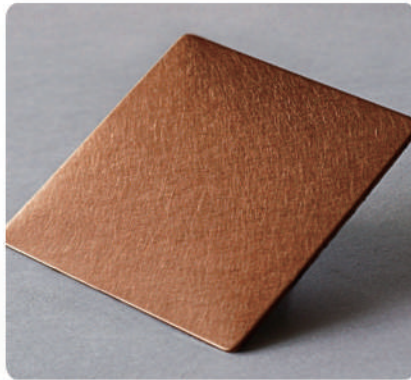
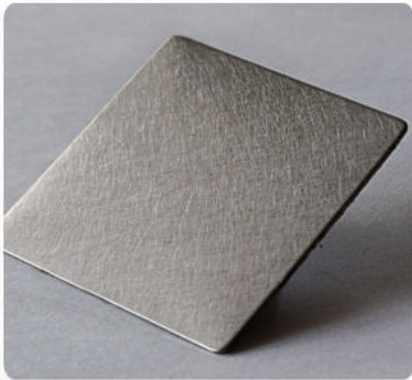
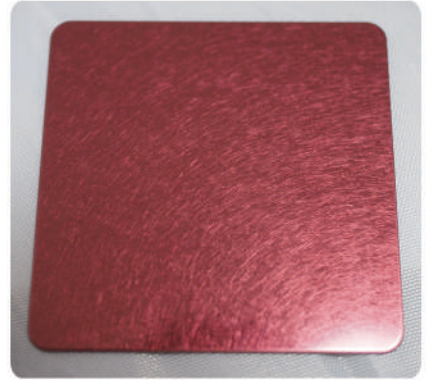
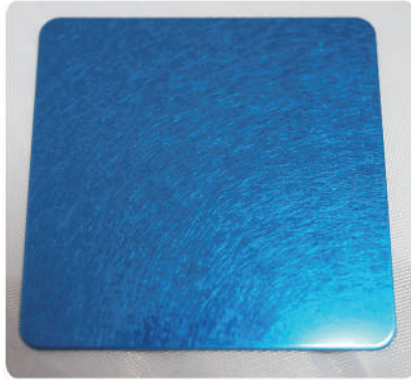
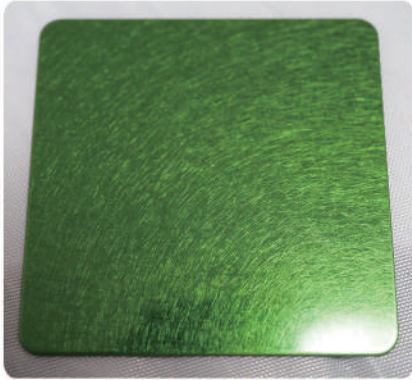


Decorative&Coloured Stainless Steel Sheet

Stainless Steel Sheet No.4&Sand Blasting Finish

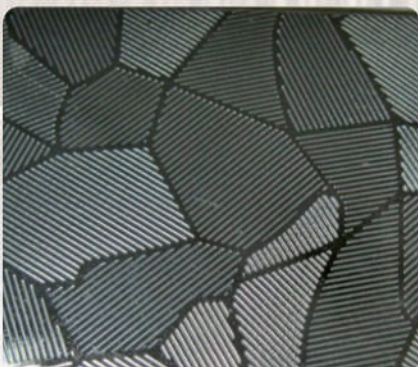
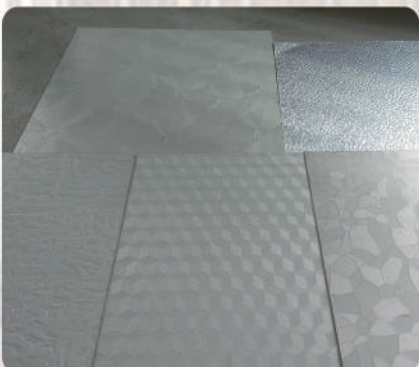
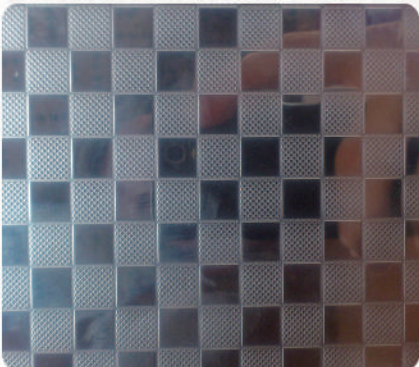
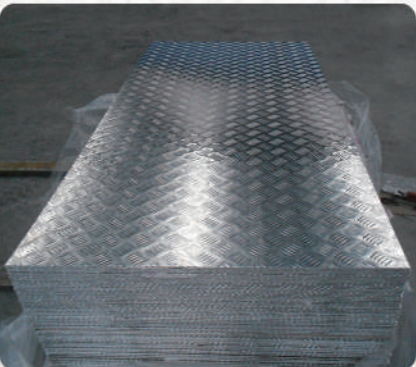
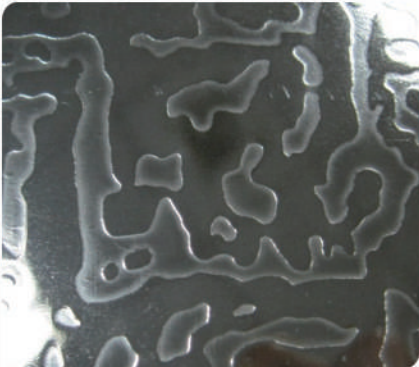


Stainless Steel Sheet Hairline&Vibration Brush Finished

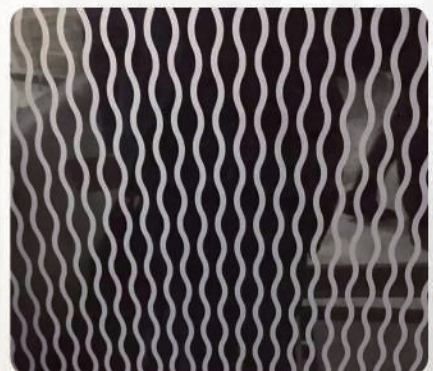
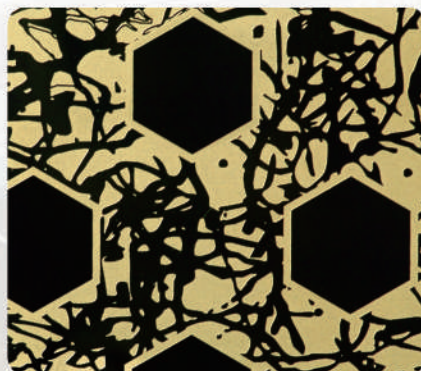
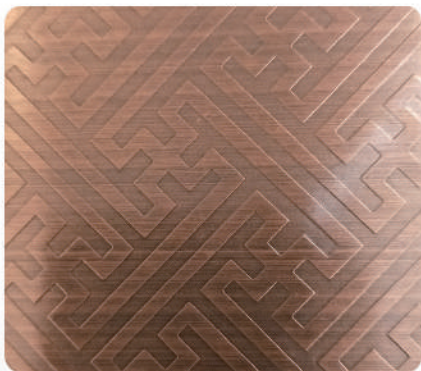
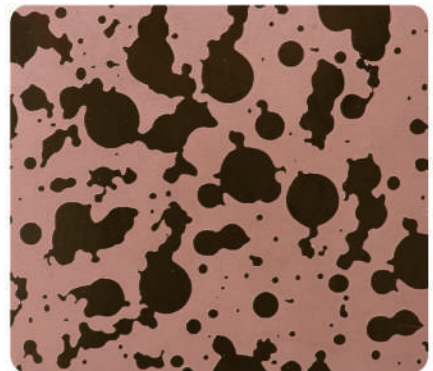
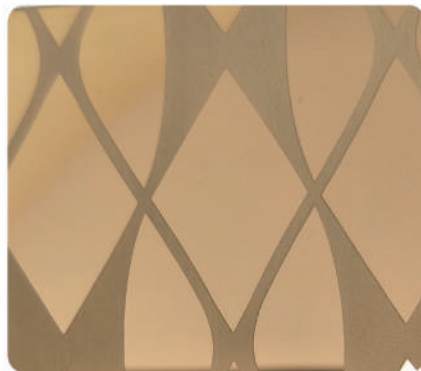
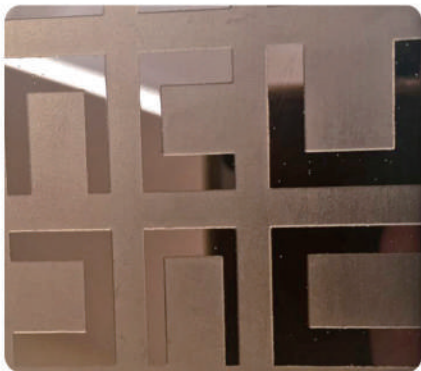


Decorative&Coloured Stainless Steel Sheet

Stainless Steel Sheet Embossed Finished

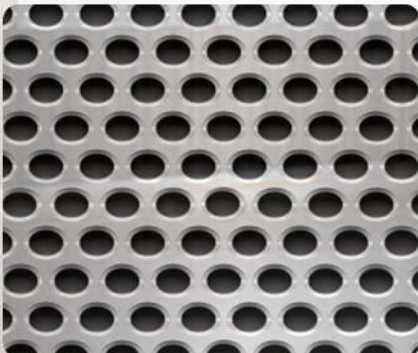
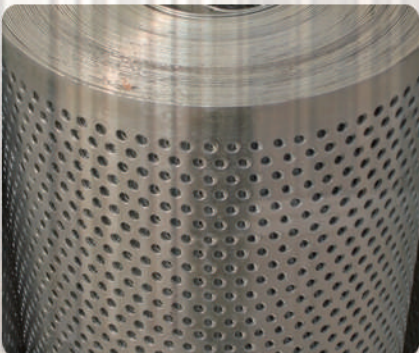
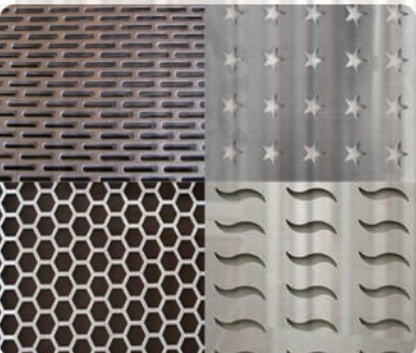
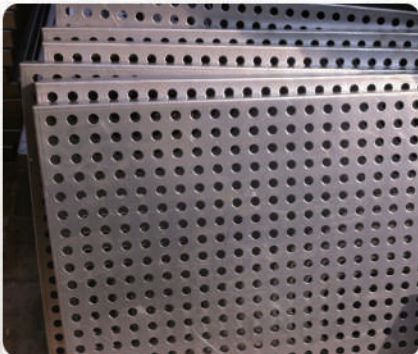
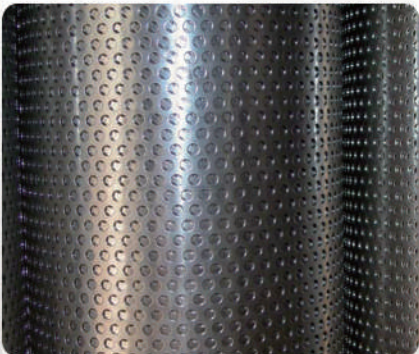
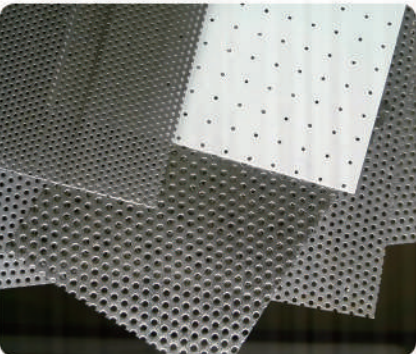
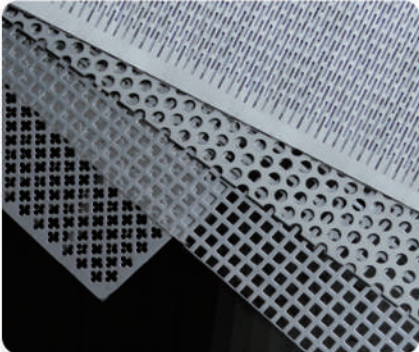
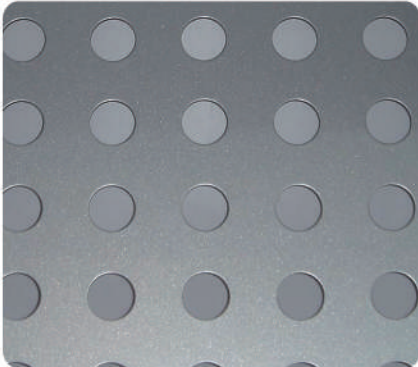
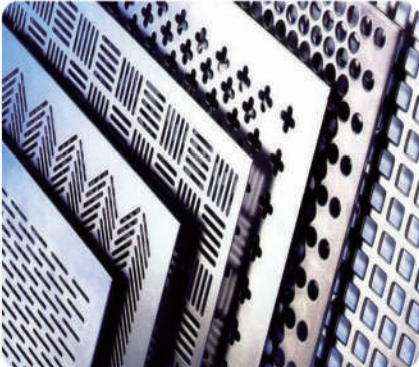
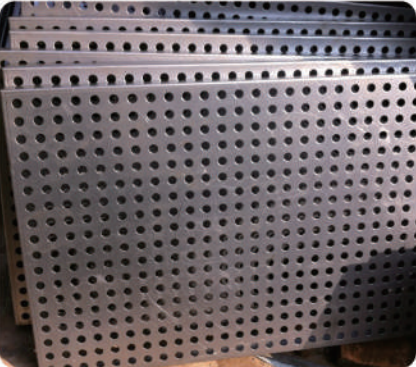


Stainless Steel Sheet Etched Finished



Decorative&Coloured Stainless Steel Sheet



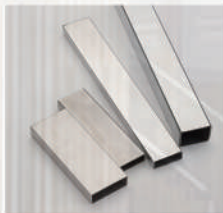


Stainless Steel Sheet Perforated Finished



Stainless Steel Pipe

Type	Seamless&Welded
Outer Diameter	8.00mm-508mm
Wall Thickness	0.30mm-30.0mm
Length	Max.12000mm or as customers' request
Main Grade	201,202,301,321,304,304L,316,316L,409,etc
Standard	GB,ASTM,JIS,DIN,etc
Surface Finish	Polishing (108#,220#,240#,320#,400#,600#),Hairline,Aid Pickling,Inside Weld leveling, Online bright heat
Manufacture technology	Cold drawn,cold rolled,hot rolled

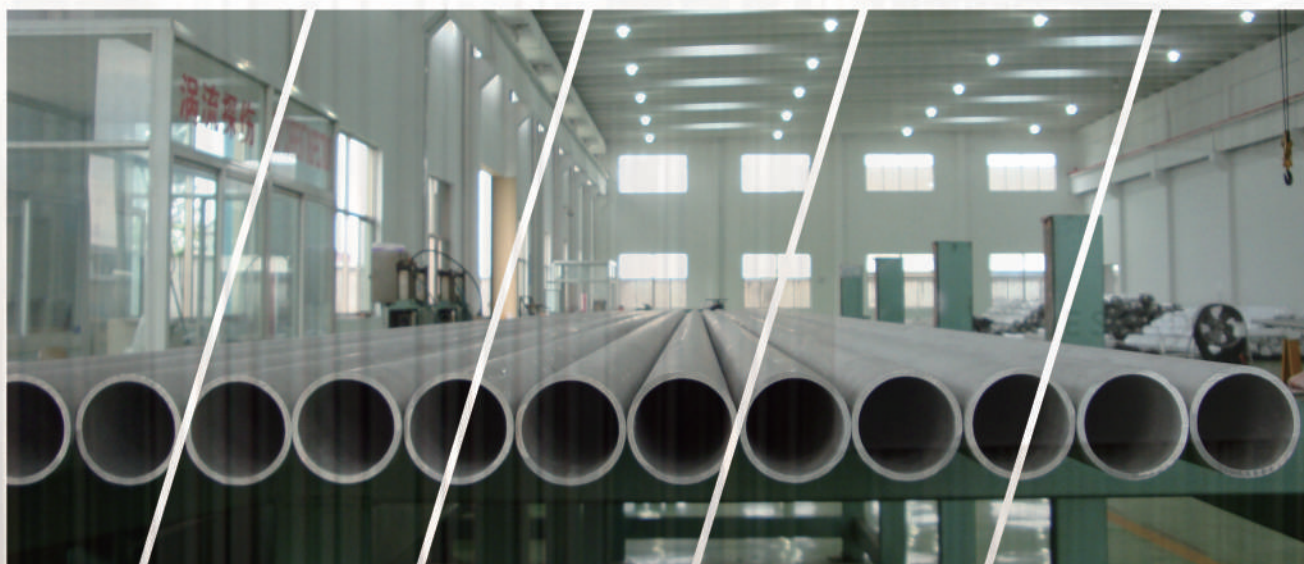
Classification

Product Name	Picture	Size	Applications
Stainless Steel Round Pipe/Tube		OD: 8.0-508mm WT: 0.3-30mm	Stainless Steel Titanium Alloy Tubing, Escalator, Elevator, Doors, Rail, stair armrest
Stainless Steel Square Pipe/Tube		Size: 10*10mm to 80*80mm WT: 0.25-3.0mm	Stainless Steel High-pressure Water Pipe High-pressure Water System
Stainless Steel Flat(Rectangular) Pipe/Tube		Size: 20*10mm to 100*80mm WT: 0.30-3.0mm	Lined Stainless Steel Pipe Automobile/Bicycle-Exhaust Pipe Brake & Fuel-piping, Steering Wheel
Stainless Steel Spiral(Embossed) Pipe/Tube		OD: 9.5-219mm WT: 0.25mm-3.0mm	Stainless Steel Ornamental Pipe Airports, stations, shopping malls, glass handrails and other decorative works.
Stainless Steel Ornamental Pipe		OD: 9.5-219mm WT: 0.25-3.0mm	Airports, stations, shopping malls, Glass handrails and other decorative works, etc

Stainless Steel Pipe

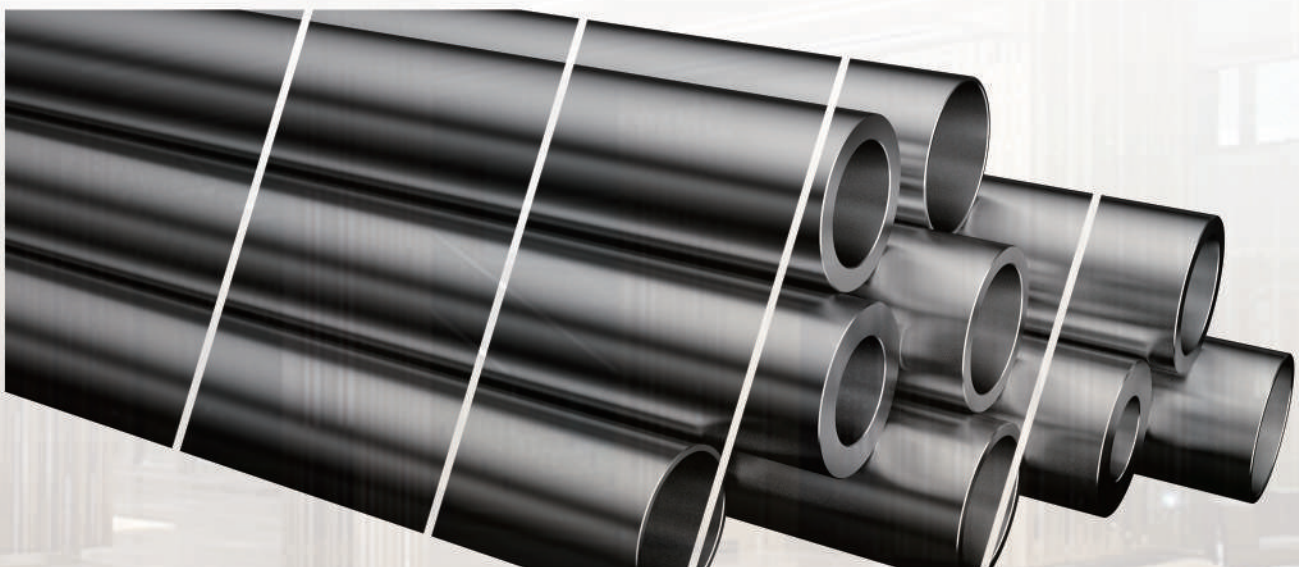
Diameter Of Stainless Steel Pipes

Nominal Diameter(mm)		Outside Diameter(mm)	Nominal Wall Thickness (mm)		
N.B	NPS		SCH5S	SCH10S	SCH40S
8	1/4"	13.72		1.65	2.24
10	3/8"	17.15		1.65	2.31
15	1/2"	21.34	1.65	2.11	2.77
20	3/4"	26.67	1.65	2.11	2.87
25	1"	33.40	1.65	2.77	3.38
32	1-1/4"	42.16	1.65	2.77	3.56
40	1-1/2"	48.26	1.65	2.77	3.68
50	2"	60.33	1.65	2.77	3.91
65	2-1/2"	73.03	2.11	3.05	5.16
80	3"	88.90	2.11	3.05	5.49
90	3-1/2"	101.60	2.11	3.05	5.74
100	4"	114.30	2.11	3.05	6.02
125	5"	141.30	2.77	3.40	6.55
150	6"	168.28	2.77	3.40	7.11
200	8"	219.08	2.77	3.76	8.18



Parameter

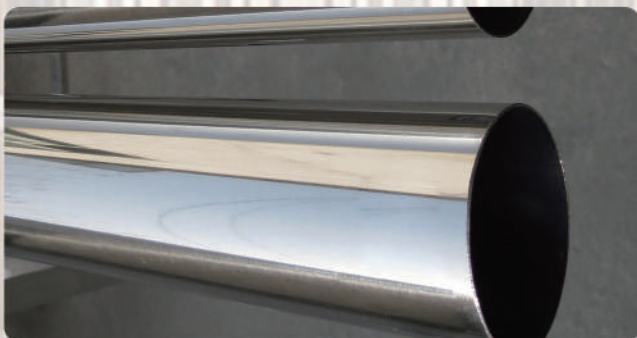
NPS	OD(mm)	SCH40(6m)		SCH80(6m)		SCH160(6m)	
		T(mm)	(kg/pc)	T(mm)	(kg/pc)	T(mm)	(kg/pc)
1/4	13.70	2.24	3.79	3.02	4.80		
3/8	17.10	2.31	5.04	3.20	6.60		
1/2	21.30	2.77	7.62	3.73	9.72	4.78	11.70
3/4	26.70	2.87	10.14	3.91	13.20	5.56	17.40
1	33.40	3.38	15.00	4.55	19.44	6.35	24.44
1-1/4	42.20	3.56	20.34	4.85	26.82	6.35	33.66
1-1/2	48.30	3.68	24.30	5.08	32.46	7.14	43.50
2	60.30	3.91	32.64	5.54	44.88	8.74	66.66
2-1/2	73.00	5.16	51.78	7.01	68.46	9.53	89.52
3	88.90	5.49	67.74	7.62	91.62	11.13	128.10
3-1/2	101.60	5.74	81.42	8.08	111.78		
4	114.30	6.02	96.42	8.56	133.92	13.49	201.24
5	141.30	6.55	130.64	9.53	185.82	15.88	294.66
6	168.30	7.11	169.56	10.97	255.36	18.26	405.36
8	219.10	8.18	255.30	12.70	287.84	23.01	667.63
10	273.00	9.27	361.86	15.09	576.06	28.58	1033.98
12	323.80	10.31	478.38	17.48	792.48		



Stainless Steel Pipe

Tolerance Of Stainless Steel Pipes

Standard	GB151 ASTM JIS DIN		
		I	II
OD	<Ø25---≥Ø50	±0.18	±0.30
	≥Ø25---≤Ø89	±0.30	±0.45
	≥Ø89---≤Ø129	±0.51	±0.80
Thickness	All specifications±0.5%		
Length	All specifications±6		
Straightness	All specifications≤2/1000		



Sea Worthy Bundle or Steel Crate.

Each pipe has the plastic bag to pack, and several will be bundled by weaving bag.



Applications Of Stainless Steel Pipes

1. Petroleum chemical enterprise, super heater of boiler, heat exchanger
2. High temperature resistant transmission fluid pipe in power station
3. Ship with pressure pipe
4. The exhaust purification device
5. Construction and ornament



Testing System

Upholding the principle of "Detail decides success or failure, quality decides the future" concept, to improve customer satisfaction for the purpose, BMJ has established a set of system and norm for quality inspection and management. Sophisticated equipment is necessary to create high-quality products. During the roll grinding, regardless of the shape control, thickness control, annealing crystallization control, hardness control, our company inspects them strictly to ensure that each product is high quality product.





DNV BUSINESS ASSURANCE
管理体系认证证书

证书号码: 2963-2017-AQ-BGC-R/C

浙江保铭嘉金属有限公司
中国上海崇明区江湾镇7866号冠龙国际广场2号楼14层 邮编: 201102

ISO 9001:2008 标准

不锈钢及不锈钢紧固件, 热轧不锈钢卷和钢板, 冷轧不锈钢卷板产品的设计、制造和销售

2017年9月20日

2019年9月20日

Wu Ji Wang
总经理

Chen Yi
认证经理



Certificate No. 014206
Certificate No. CH120084

ZHEJIANG BMJ METAL CO. LTD.
浙江保铭嘉金属有限公司

F18, Lianhua International Plaza, Building 2,
102, 7866 Huan Road,
Shanghai, China

ISO/TS 16949:2009

Design and manufacture of stainless steel including types of 304, 316L, 430, and 321 in 2002 finish used in automotive parts
规格 304, 316L, 430, 432 表面品质为 2002 应用于汽车零部件的不锈钢卷和钢板
EXCLUSIONS: None

3 Year certification is valid from 01 August 2016 until 31 July 2019 and remains valid subject to satisfactory surveillance audits
有效期: 3 年, 自 2016 年 8 月 01 日至 2019 年 7 月 31 日
再认证将在 2019 年 6 月 30 日前进行

SGS



CERTIFICATE OF REGISTRATION

Certificate No.: 117 10 GU 0221-04 R05

This is to Certify the Quality Management Systems of
Zhejiang BaoMingJia Metal Co.,Ltd
Location: F18, No.3 Building, Fortune Plaza, ShangYu City, China

has been assessed and registered as meeting the requirements of
ISO9001:2008

Scope of approval
Manufacture & Sales of Metal Products, Business on Electromechanical Equipment and Parts, Hardware and Apparatus & Meters

Approved Date: 23 Apr 2017
Expiry Date: 22 Apr 2019

Sign by: [Signature]

ISO 9001:2008



sira CERTIFICATION

QUALITY MANAGEMENT SYSTEM CERTIFICATE

This is to Certify that the Quality Management System of
ZHEJIANG BMJ METAL CO.,LTD.
Floor 19, No.3 Building, Fortune Plaza
Shangyu City, China

has been assessed by Sira Certification Service and found to comply with
ISO9001:2008

For the
Manufacture & Sales of Metal Products Business on Electromechanical Equipment and Parts, Hardware and Apparatus & Meters
(outside the scope of export permit)

Certificate No: 129018
Initial Certification: 07 November 2016
Date of Issuance/Reissue: 07 November 2016
Certificate Expiry: 27 October 2019

On behalf of BCR

IAF

Recertification Date: 27 October 2019



21315[®]
Rating Certificate of Quality Credit

This is to certify that
Shangyu Baomingjia Metal Co., Ltd
has met the Level AAA standard of Quality Credit Rating Classification established by China Product Quality Association, and is awarded this certificate.

Adaptive Product (Service) Scope:
Aluminum foil products, aluminum foil product

Certificate (21315) is issued on the basis of the annual audit. Please refer to the website for details of the certificate.

The Rating Agency is responsible for building the certificate application rules and the credibility. Please refer to the website for details.

Granting Organization: China Association of Quality Credit Rating

Issue Date: 01-16-2019



The Authentication Certificate Of Quality Management System
Shangyu Baomingjia Metal Co.,Ltd
Mishang Area, Shanghai (NO. 7866 Huan Road)
P.C. 215616

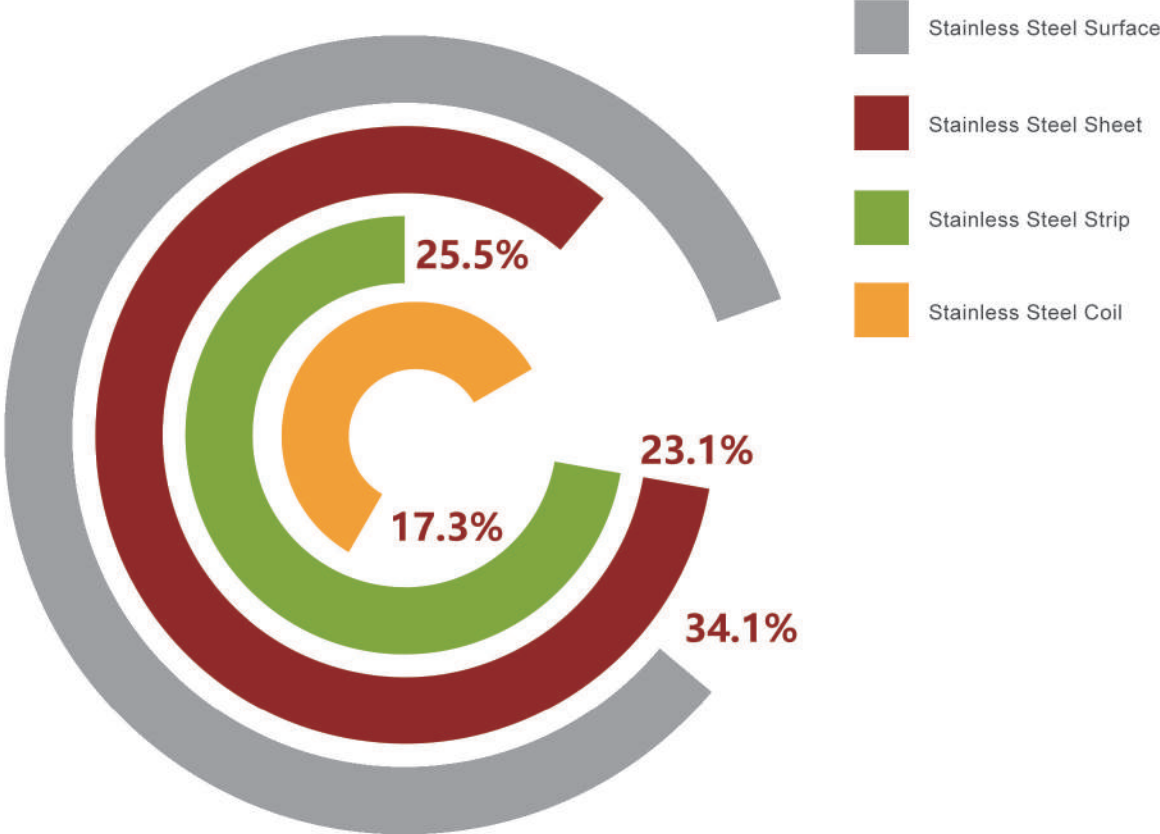
According to your organization's application, our centre carried out audit and certification in accordance with the requirements for Quality Management System (GB/T19001-2008 idt ISO9001:2008). It accords with the requirements through assessment.

The scope of the certified QMS is:
The production and service of 0.01-0.3mm aluminum foil, 0.15-30mm aluminum foil drawtube and 0.30-150mm plastic hose.

Registered No.: HSNXQ1018026
Date of Registration: 15-6-2016
Date of Validity: 15-6-2016-14-3-2017

Beijing NGV Certification Centre
Director: **Zengjian**

Sales Volume Per Category



Main Grade

Grade and Chemical Composition%										Mechanical Properties			
Grade	C	Si	Mn	P≤	S≤	Cr	Mo	Ni	Other	YS(Mpa) ≥	TS (Mpa) ≥	El (%) ≥	Hardness(HV) ≤
201 (mid copper)	≤0.15	≤1.00	10-11	0.045	0.03	12-14	-	0.8-1.0	Cu 0.8-1.0	200	520	25	210
201 (high copper)	≤0.15	≤1.00	9.5-10	0.04	0.03	13-15	-	1.0-1.2	Cu 1.4-1.6	200	520	35	210

Grade and Main Chemical Composition%										Mechanical Properties			
Grade	C	Si	Mn	P≤	S≤	Cr	Mo	Ni	Other	YS(Mpa) ≥	TS (Mpa) ≥	El (%) ≥	Hardness(HV) ≤
304	≤0.07	≤1.00	≤2.00	0.035	0.03	17-19	-	8.0	-	200	520	50	165-175
304L	≤0.075	≤1.00	≤2.00	0.045	0.03	17-19	-	8.0	-	175	480	50	180

Grade and Main Chemical Composition%										Mechanical Properties			
Grade	C	Si	Mn	P≤	S≤	Cr	Mo	Ni	Other	YS(Mpa) ≥	TS (Mpa) ≥	El (%) ≥	Hardness(HV) ≤
316	≤0.08	≤1.00	≤2.00	0.045	0.03	16-18.5	2	10	-	200	520	50	180
316L	≤0.03	≤1.00	≤2.00	0.045	0.03	16-18	2	10	-	200	480	50	180

Grade and Main Chemical Composition%										Mechanical Properties			
Grade	C	Si	Mn	P≤	S≤	Cr	Mo	Ni	Other	YS(Mpa) ≥	TS (Mpa) ≥	El (%) ≥	Hardness(HV) ≤
321	≤0.12	≤1.00	≤2.00	0.045	0.03	17-19	-	9	Ti≥5×C	200	520	40	180

Grade and Main Chemical Composition%										Mechanical Properties			
Grade	C	Si	Mn	P≤	S≤	Cr	Mo	Ni	Other	YS(Mpa) ≥	TS (Mpa) ≥	El (%) ≥	Hardness(HV) ≤
430	≤0.12	≤0.75	≤1.00	0.04	0.03	16-18	-	≤0.4		200	450	25	145

Application

The stainless steel bands manufactured by this company are broadly used for various production purposes

Tableware, Utensils, Face plate, Decorative tube, Lighting products, Building materials, Medical equipment, Chemical industry
 Container stuffing, Food processing, Auto, Hardware stamping parts etc.



Grade	Application
201	Tableware, chassis panel, pipe, electrical appliances parts
202	Food processing, kitchen supplies, decorative tube, tank, railway vehicles
301	Spring, railway vehicles
304	Ware, kitchen equipment, building materials, automotive, medical, chemical, food, container etc.
304L	Chemical equipment, water, medical equipment, nuclear power plant equipment
305	Stamping parts, dental materials fasteners
309S	Heat exchange
310S	Building, chemical equipment, flue high corrosion environment
316	Chemical equipment, heat exchange
316L	Chemical equipment, heat exchange
317	Chemical equipment, desalination of sea water, corrosion resistant equipment
321	Beer production equipment, aircraft equipment, chemical equipment, heat exchange
409	Automobile exhaust pipe, silencer
410	Cutting tools, machinery parts
420	Cutting tool, measuring tool
430	Tools, kitchen utensils, containers thermal appliances, electrical appliances parts

Thickness Tolerance Table

GB Unit: mm

Tolerance			
Thickness	Width		
	Higher precision (A)		General accuracy(B)
	>600~1000	>1000~1250	>600~1250
0.04~0.10	----	----	----
>0.10~0.15	----	----	----
>0.15~0.25	----	----	----
>0.25~0.45	±0.040	±0.040	±0.040
>0.45~0.65	±0.040	±0.040	±0.050
>0.65~0.90	±0.050	±0.050	±0.060
>0.90~1.20	±0.050	±0.060	±0.080
>1.20~1.50	±0.060	±0.070	±0.110
>1.50~1.80	±0.070	±0.080	±0.120
>1.80~2.00	±0.090	±0.100	±0.130
>2.00~2.30	±0.100	±0.110	±0.140
>2.30~2.50	±0.100	±0.110	±0.140
>2.50~3.10	±0.110	±0.120	±0.160
>3.10~<4.00	±0.120	±0.130	±0.180

Japanese Industrial Standard Unit: mm

Tolerance		
Thickness	Width	
	<1250	≥1250~<1600
≥0.30~<0.60	±0.05	±0.06
≥0.60~<0.80	±0.07	±0.09
≥0.80~<1.00	±0.09	±0.10
≥1.00~<1.25	±0.10	±0.12
≥1.25~<1.60	±0.12	±0.15
≥1.60~<2.00	±0.15	±0.17
≥2.00~<2.50	±0.17	±0.20
≥2.50~<3.15	±0.22	±0.25
≥3.15~<4.00	±0.25	±0.30
≥4.00~<5.00	±0.35	±0.40
≥5.00~<6.00	±0.40	±0.45
≥6.00~<7.00	±0.50	±0.50

ASTM Unit: mm

Thickness	Allowable deviation		Width	
	Up	down	≤1000	>1000~≤1300
0.1	0.03	0.03	---	---
0.15	0.04	0.04	---	---
0.2	0.05	0.05	---	---
0.25	0.05	0.05	---	---
0.3	---	---	0.03	---
0.4	---	---	0.04	0.04
0.5	0.08	0.08	---	---
0.5	---	---	0.045	0.05
0.6	---	---	0.05	0.05
0.75	0.1	0.1	---	---
0.8	---	---	0.05	0.05
1	0.13	0.13	---	---
1	---	---	0.055	0.06
1.2	---	---	0.08	0.08
1.25	0.13	0.13	---	---
1.5	---	---	0.08	0.08
1.75	0.15	0.15	---	---
2	0.18	0.18	---	---
2	---	---	0.1	0.1
2.25	0.2	0.2	---	---
2.5	0.23	0.23	---	---
2.5	---	---	0.1	0.11
2.75	0.25	0.25	---	---
3	0.25	0.25	---	---
3	---	---	0.13	0.13
3.25	0.3	0.3	---	---
3.5	0.3	0.3	---	---
3.75	0.36	0.36	---	---
4	0.36	0.36	---	---
4	---	---	0.17	0.17
4.99	0.36	0.36	---	---
5	---	---	0.17	0.17
6	---	---	0.17	0.2
8	---	---	0.17	0.22

Thickness International conversion

28GA=0.015 inches=0.38 mm
26GA=0.018 inches=0.46 mm
24GA=0.024 inches=0.61 mm
22GA=0.030 inches=0.76 mm
20GA=0.036 inches=1.00 mm
18GA=0.048 inches=1.20 mm
16GA=0.060 inches=1.60 mm
14GA=0.075 inches=2.00 mm
12GA=0.105 inches=2.70 mm

Brand Comparison Table

Brand Comparison						
Serial number	China * GB			Japan	United States of America	
	Unified digital code	New Brand(GB24511)	Old Brand	JIS	ASTM	UNS
Austenite						
1	S35350	12Cr17Mn6Ni5N	1Cr17Mn6Ni5N	SUS201	201	S20100
2	S35450	12Cr18Mn9Ni5N	1Cr18Mn8Ni5N	SUS202	202	S20200
3	S30110	12Cr17Ni7	1Cr17Ni7	SUS301	301	S30100
4	S30408	06Cr19Ni10	0Cr18Ni9	SUS304	304	S30400
5	S30403	022Cr19Ni10	00Cr19Ni10	SUS304L	304L	S30403
6	S30458	06Cr19Ni10N	0Cr19Ni9N	SUS304N1	304N	S30451
7	S30478	06Cr19Ni9NbN	0Cr19Ni10NbN	SUS304N2	XM21	S30452
8	S30453	022Cr19Ni10N	00Cr18Ni10N	SUS304LN	304LN	S30453
9	S30510	10Cr18Ni12	1Cr18Ni12	SUS305	305	S30500
10	S30908	06Cr23Ni13	0Cr23Ni13	SUS309S	309S	S30908
11	S31008	06Cr25Ni20	0Cr25Ni20	SUS310S	310S	S31008
12	S31608	06Cr17Ni12Mo2	0Cr17Ni12Mo2	SUS316	316	S31600
13	S31668	06Cr17Ni12Mo2Ti	0Cr18Ni12Mo3Ti	SUS316Ti	316Ti	S31635
14	S31603	022Cr17Ni12Mo2	00Cr17Ni14Mo2	SUS316L	316L	S31603
15	S31658	06Cr17Ni12Mo2N	0Cr17Ni12Mo2N	SUS316N	316N	S31651
16	S31653	022Cr17Ni13Mo2N	00Cr17Ni13Mo2N	SUS316J1	316LN	S31653
17	S31688	06Cr18Ni12Mo2Cu2	0Cr18Ni12Mo2Cu2	SUS316J1	-	-
18	S31683	022Cr18Ni14Mo2Cu2	00Cr18Ni14Mo2Cu2	SUS316J1L	-	-
19	S31708	06Cr19Ni13Mo3	0Cr19Ni13Mo3	SUS317	317	S31700
20	S31703	022Cr19Ni13Mo3	00Cr19Ni13Mo3	SUS317L	317L	S31703
21	S32168	06Cr18Ni11Ti	0Cr18Ni10Ti	SUS321	321	S32100
22	S34778	06Cr18Ni11Nb	0Cr18Ni11Nb	SUS347	347	S34700
Ferrite						
25	S11348	06Cr13Al	0Cr13Al	SUS405	405	S40500
26	S11163	022Cr11Ti	-	SUH409	409	S40900
27	S11203	022Cr12	00Cr12	SUS410L	-	-
28	S11710	10Cr17	1Cr17	SUS430	430	S43000
29	S11790	10Cr17Mo	1Cr17Mo	SUS434	434	S43400
30	S11873	022Cr18NbTi	-	-	-	S43940
31	S11972	019Cr19Mo2NbTi	00Cr18Mo2	SUS444	444	S44400
Martensite						
32	S40310	12Cr12	1Cr12	SUS403	403	S40300
33	S41010	12Cr13	1Cr13	SUS410	410	S41000
34	S42020	20Cr13	2Cr13	SUS420J1	420	S42000
35	S42030	30Cr13	3Cr13	SUS420J2	-	-
36	S44070	68Cr17	7Cr17	SUS440A	440A	S44002

South Korea	European Union	India	Australia	Taiwan,China	Germany
KS	BSEN	IS	AS	CNS	DIN
STS201	1.4372	10Cr17Mn6Ni4N20	201-2	201	X12CrMnNiN17-7-5
STS202	1.4373	-	-	202	X12CrMnNiN18-9-5
STS301	1.4319	10Cr17Ni7	301	301	X5CrNi17-7
STS304	1.4301	07Cr18Ni9	304	304	X5CrNi18-10
STS304L	1.4306	02Cr18Ni11	304L	304L	X2CrNi19-11
STS304N1	1.4315	-	304N1	304N1	X5CrNi19-9
STS304N2	-	-	304N2	304N2	-
STS304LN	-	-	304LN	304LN	X2CrNi18-10
STS305	1.4303	-	305	305	X4CrNi18-12
STS309S	1.4833	-	309S	309S	X12CrNi23-13
STS310S	1.4845	-	310S	310S	X8CrNi25-21
STS316	1.4401	04Cr17Ni12Mo2	316	316	X5CrNiMo17-12-2
-	1.4571	04Cr17Ni12MoTi20	316Ti	316Ti	X6CrNiMoTi17-12-2
STS316L	1.4404	~02Cr17Ni12Mo2	316L	316L	X2CrNiMo17-12-2
STS316N	-	-	316N	316N	-
STS316LN	1.4429	-	316LN	316LN	X2CrNiMoN17-13-3
STS316J1	-	-	316J1	316J1	-
STS316J1	-	-	-	316J1L	-
-	-	-	317	317	-
STS317L	1.4438	-	317L	317L	X2CrNiMo18-15-4
STS321	1.4541	04Cr18Ni10Ti20	321	321	X6CrNiTi18-10
STS347	1.455	04Cr18Ni10Nb40	347	347	X6CrNiNb18-10
STS405	1.4002	04Cr13	405	405	X6CrAl13
STS409	1.4512	-	409L	409L	X2CrTi12
STS410L	-	-	410L	410L	-
STS430	1.4016	05Cr17	430	430	X6Cr17
STS434	1.4113	-	434	434	X6CrMo17-1
-	1.4509	-	439	439	X2CrTiNb18
STS444	1.4521	-	444	444	X2CrMoTi18-2
STS403	-	-	403	403	-
STS410	1.4006	12Cr13	410	410	X12Cr13
STS420J1	1.4021	20Cr13	420	420J1	X20Cr13
STS420J2	1.4028	30Cr13	420J2	420J2	X30Cr13
STS440A	-	-	440A	440A	-

Tables Of Technical Properties

Grade and Main Chemical Composition%										Mechanical Properties			
Grade	C	Si	Mn	P≤	S≤	Cr	Mo	Ni	Other	YS(Mpa) ≥	TS (Mpa) ≥	El (%) ≥	Hardness(HV) ≤
201 (mid copper)	≤0.15	≤1.00	10-11	0.045	0.03	12-14	-	0.8-1.0	Cu 0.8-1.0	200	520	25	210
201 (high copper)	≤0.15	≤1.00	9.5-10	0.04	0.03	13-15	-	1.0-1.2	Cu 1.4-1.6	200	520	35	210
202	≤0.15	≤1.00	7.5-10.0	0.06	0.03	17-19	-	4.0	N≤0.25	200	590	40	180
301	≤0.15	≤1.00	≤2.00	0.045	0.03	16-18	-	6.0	-	200	520	40	180
302	≤0.15	≤0.75	≤2.00	0.045	0.03	17-19	-	8.0-10.0	-	276	621	50	201
303	≤0.10	≤1.00	≤2.00	0.045	0.03	17-19	-	8.0-10.0	Cu≤1.0	190	500	35	-
304	≤0.07	≤1.00	≤2.00	0.035	0.03	17-19	-	8.0	-	200	520	50	165-175
304L	≤0.075	≤1.00	≤2.00	0.045	0.03	17-19	-	8.0	-	175	480	50	180
309S	≤0.08	≤1.00	≤2.00	0.045	0.03	22-24	-	12.0	-	200	520	40	180
310S	≤0.08	≤1.5	≤2.00	0.045	0.03	24-26	-	19.0	-	200	520	40	180
316	≤0.08	≤1.00	≤2.00	0.045	0.03	16-18.5	2	10.0	-	200	520	50	180
316L	≤0.03	≤1.00	≤2.00	0.045	0.03	16-18	2	10.0	-	200	480	50	180
317	≤0.12	≤1.00	≤2.00	0.045	0.03	18-20	4	11.0	-	200	520	40	180
321	≤0.12	≤1.00	≤2.00	0.045	0.03	17-19	-	9.0	Ti≥5×C	200	520	40	180
330	≤0.015	≤2.00	≤2.00	0.045	0.015	15-17	-	33-37	-	230	550	30	223
347	≤0.08	≤1.00	≤2.00	0.045	0.015	17-19	-	9-12	Nb:10×C to1.00	230	550	30	223

Grade and Main Chemical Composition%										Mechanical Properties			
Grade	C	Si	Mn	P≤	S≤	Cr	Mo	Ni	Other	YS(Mpa) ≥	TS (Mpa) ≥	El (%) ≥	Hardness(HV) ≤
405	≤0.08	≤1.00	≤1.00	0.04	0.015	12-14	-	-	Al:0.1-0.3	230	400	17	150
409L	≤0.03	≤1.00	≤1.00	0.04	0.03	10.5-11.7		≤0.6	Ti=6×C%~0.75	175	360	20	150
410	≤0.15	≤1.00	≤1.00	0.04	0.03	11.5-13.5	-	-	-	200	440	20	145
410S	≤0.08	≤1.00	≤1.00	0.04	0.03	11.5-13.5	-	-	-	200	410	20	145
420	0.16-0.25	≤1.00	≤1.50	0.04	0.015	12-14	-	-	-	550	750	10	-
429	≤0.12	≤1.00	≤1.00	0.04	0.03	14-16	-	-	-	276	483	30	163
430	≤0.12	≤0.75	≤1.00	0.04	0.03	16-18	-	≤0.4		200	450	25	145
434	≤0.08	≤1.00	≤1.00	0.04	0.015	16-18	0.9-1.4	-	-	280	450	18	-
439	≤0.05	≤1.00	≤1.00	0.04	0.015	16-18	-	-	-	240	420	23	183
444	≤0.025	≤1.00	≤1.00	0.04	0.015	17-20	1.8-2.5	-	-	300	420	20	217
436	≤0.08	≤1.00	≤1.00	0.04	0.015	16-18	0.8-1.4	-	-	300	480	25	-
446	0.15-0.2	≤1.00	≤1.00	0.04	0.015	0.15-0.25	26-29	-	-	280	500	15	212
904L	≤0.020	≤0.70	≤2.00	0.030	0.01	19-21	4	24-26	Cu:1.2-2.0	220	530	35	-
2205	≤0.030	≤1.00	≤2.00	0.035	0.015	21-23	2.5-3.5	4.5-6.5	-	460	640	25	293
2507	≤0.030	≤1.00	≤2.00	0.035	0.015	24-26	3.0-4.5	6.0-8.0	-	530	730	20	310