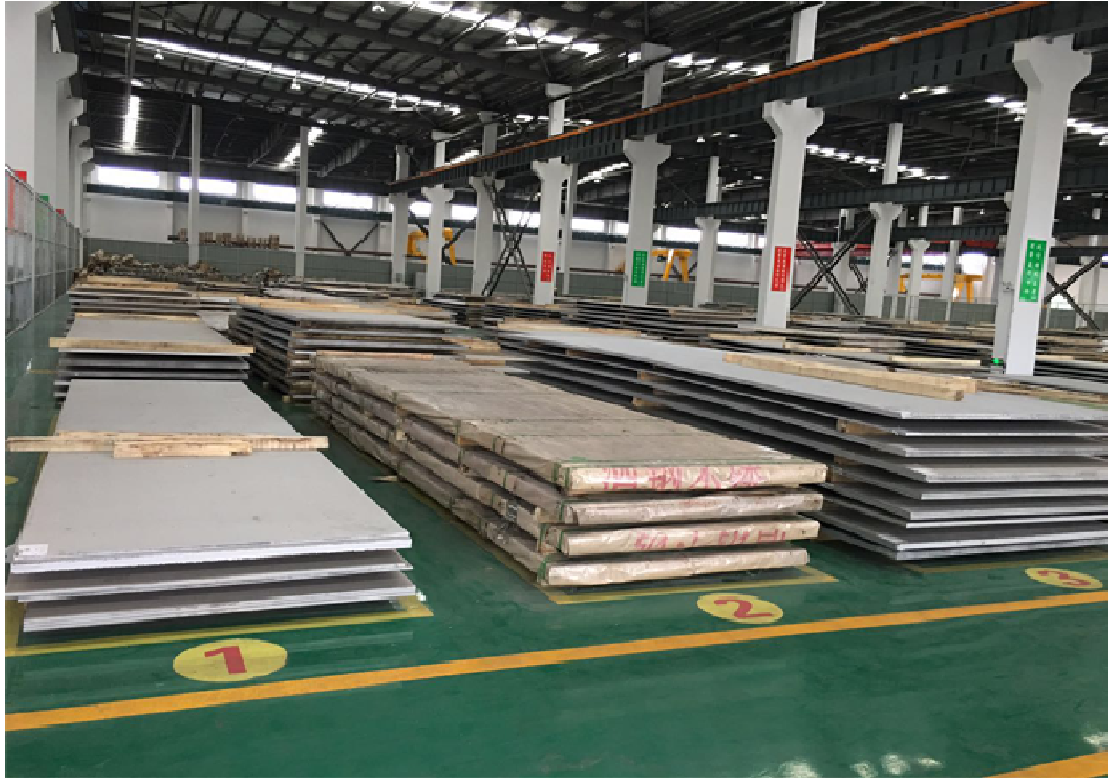




**Wuxi SDO stainless steel Co., Ltd**

## Duplex Stainless Steel Sheet



Duplex stainless steel has developed to the third generation since its birth in the United States in the 1940s. Its main feature is that the yield strength can reach 400-550MPa, which is twice that of ordinary stainless steel, so it can save materials and reduce equipment manufacturing costs. In terms of corrosion resistance, especially under the conditions of harsh media environment (such as sea water, high chloride ion content), the pitting corrosion, crevice corrosion, stress corrosion and corrosion fatigue resistance of duplex stainless steel are significantly better than ordinary austenite Stainless steel is comparable to high-alloy austenitic stainless steel.

Duplex stainless steel has good welding performance. Compared with ferritic stainless steel and austenitic stainless steel, it is not like the welding heat-affected zone of ferritic stainless steel. Due to the severe coarsening of crystal grains, the plastic toughness is greatly reduced. Unlike austenitic stainless steel, it is more sensitive to welding hot cracks. Wuxi SDO [stainless steel factory](#) can provide various stainless steel products to meet your needs.

## Duplex Stainless Steel Sheet Specification

Item	Stainless Steel Duplex sheet (Hot rolled, Cold rolled)
Thickness	0.3~10.0mm
Width	1000mm, 1219mm, 1500mm, 1800mm, 2000mm, 2500mm, 3000mm, 3500mm, etc
Length	2000mm, 2440mm, 3000mm, 5800mm, 6000mm, etc
Standard	JIS, AISI, ASTM, GB, DIN, EN, etc
Surface	2B, 2D, BA, NO.1, NO.4, NO.8, 8K, mirror, checkered, embossed, hair line, sand blast, Brush, etching, etc
Package	Shrink-wrapped, Carton boxes, Wooden pallets, Wooden boxes, Wooden crates Etc.
Edge	Mill Edge Slit Edge
Export to	India, Indonesia, Malaysia, Singapore, Saudi Arabia, Qatar, UAE, Iran, Iraq, Oman, South Africa, Nigeria, Kenya, Italy, UK, Brazil, Russia, Egypt, Kuwait, Taiwan, Australia.

## Chemical Elements Of 443 Stainless Steel Sheet

Chemical Components			Specification	Key Features	Typical Application
element	Minimum percentage	Maximum percentage			
C	–	0.08	ASTM A240 ISO 15156-3 (NACE MR0175) BS EN 10088-3	The corrosion resistance at higher temperatures is better than that of 316 stainless steel.	Chemical processing . spring. fastener. Threaded insert. Metal mesh
Si	–	1			
Mn	–	2			
P	–	0.045			
S	–	0.03			
Cr	16.5	18.5			
Mo	2	2.5			
Ni	10.5	13.5			

Ti	5 x C	0.7			
Fe	bal				
Density	7.9 g/cm <sup>3</sup>		0.285 lb/in <sup>3</sup>		
Melting point	1375°C		2500°F		
Coefficient of expansion	16.5 μm/m °C (21 – 100°C)		9.110 x 10 <sup>-6</sup> in/in °F (70 – 212°F)		
Rigid modulus	74 kN/mm <sup>2</sup>		10730 ksi		
Modulus of elasticity	193 kN/mm <sup>2</sup>		27990 ksi		

## Processing Service Of Our Duplex Stainless Steel Sheet

- **Cutting+Slitting - Duplex stainless steel narrow strip, special**

### **length/width plate**

(1) Flame cutting: The cost of flame cutting equipment is low and it is the only economical and effective means to cut thick metal plates, but it has its shortcomings in thin plate cutting.

(2) Laser cutting: Laser cutting equipment can cut stainless steel plates below 30mm. Adding oxygen to the laser beam can cut 40mm thick carbon steel, but after oxygen cutting, a thin oxide film will be formed on the cutting surface.

(3) Wire cutting: It is developed on the basis of EDM perforation and forming. It has not only developed the application of EDM but also replaced EDM perforation and forming in some aspects.

(4) Shearing cutting: Uses a moving upper blade and a fixed lower blade and uses a reasonable blade gap to apply shearing force to metal plates of various thicknesses so that the plates can be broken and separated according to the required size. Shearing machine is a kind of forging machinery, and its main function is the metal processing industry.

(5) Plasma cutting : It is a processing method that uses the heat of a high-temperature plasma arc to partially or partially melt (and evaporate) the metal at the incision of the workpiece and uses the momentum of the high-speed plasma to remove the molten metal to form an incision.

(6) Slitting: Also known as slitting, refers to the process of uncoiling, slitting, leveling,

and winding of stainless steel coils into coils of the required width.

- **Surface processing - 8K mirror, HL hairline, color coating**
- **Bending+Welding - OEM customized products as drawing**

## Application Of Duplex Corrosion Resistant Stainless Steel Sheet

application	Used in papermaking, petrochemical, shipbuilding, nuclear power, pressure vessels, desalination, water pumps, transportation, machinery manufacturing, environmental protection, containers and other industries
Feature	Variety of varieties, complete specifications, superior performance, wide range of uses, and has obtained various related industry certifications
performance	High strength, yield strength twice that of 18-8 stainless steel, good pitting corrosion resistance and chloride stress corrosion resistance, low welding hot cracking tendency, high thermal conductivity, low linear expansion coefficient, good for work hardening, high Energy absorption, good impact resistance
Market dynamics	With the rapid development of my country's economy, the corrosion resistance and strength requirements of materials are getting higher and higher, and with the large fluctuations in the cost of raw materials, the development of energy-saving materials is more and more favored by users. Dual-phase steel has both of the above advantages. , It is more and more widely used in all walks of life, and the market prospect is broad.

## Duplex Stainless Steel Sheet Processing

- Duplex Stainless Steel Sheet Cutting
- Duplex Stainless Steel Sheet Slitting
- Duplex Stainless Steel Sheet Color coating
- Duplex Stainless Steel Sheet Hairline/Brush
- Duplex Stainless Steel Sheet Etching
- Duplex Stainless Steel Sheet Welding
- Duplex Stainless Steel Sheet Bending
- Duplex Stainless Steel Sheet Embossing
- Duplex Stainless Steel Sheet Bead Blasted

- Duplex Stainless Steel Sheet Polishing

## Duplex Stainless Steel sheet Stock Available

Tisco Stainless Steel Duplex sheet	Stainless Steel Duplex sheet	Jindal Stainless Steel Duplex sheet
SS Duplex Perforated sheet	A 240 Duplex sheet	SS DIN 1.4571 sheet
Stainless Steel Duplex UNS S31635 sheet	SS Duplex Embossed sheet	ThyssenKrupp Stainless Steel Duplex sheet
A 240 Chequered Duplex sheet	Outokumpu SS Duplex sheet	ASTM A240 Stainless Steel Duplex sheet
Aperam Stainless Steel Duplex sheet	SA 240 Duplex Stainless Steel sheet	Surface Polishing SS Duplex sheet
Duplex Stainless Steel HR sheet	Bright Hammered Pattern Decorative SS Duplex sheet	Duplex Stainless Steel Blank sheet
Duplex Stainless Steel Chequered sheet	Duplex Stainless Steel CR sheet	Duplex Stainless Steel Perforated sheet
Duplex Stainless Steel Golden Laser Pattern sheet	Duplex Stainless Steel 2B sheet	Embossed ss Duplex sheet
Super thin-Mirror surface BA ss Duplex sheet	Duplex Stainless Steel B. Q. Profile sheets	Cheap cold rolled ss Duplex sheet with best price
Super Austenitic SS Duplex sheet	Best selling 4'x8' mirror finished ss Duplex sheet	Brush finish ss Duplex sheet price list
ASTM A240 Duplex sheet	Decorative hairline inox cold rolled ss Duplex sheet	SS URANUS B6 Duplex sheet
JMSS cold rolled ss Duplex sheet	Hair Line Finish SS Duplex sheet	2B SUS SS Duplex sheet
Cold Rolled No.1 Finish SS Duplex sheet	Laser cutting ss Duplex sheet	Food Grade Stainless Steel Duplex sheet
SEW 400 Stainless Steel Duplex sheet	Tisco Supplier 3mm Thickness Stainless Steel Duplex sheet	No. 4 PVC Coated SS Duplex sheet
Hot Rolled Stainless Steel Duplex sheet	Decorative Stainless Steel Duplex sheet	SS Duplex sheet Blasted Tin-Gold Rose
Sales Promotion SS	Scotch Brite SS Duplex sheet	2mm ASTM SS Duplex

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Duplex sheet		sheet
Cr Stainless Steel Duplex sheet	Baosteel Stainless Steel Duplex sheet	Stainless Steel Corrugated Duplex sheet
SS Duplex Mill Test Certificate sheet	Stainless Steel Cladding Duplex sheet	ASTM B625 Duplex sheet
ASTM A240 Duplex sheet	Black SS Duplex sheet 4mm Thick	Brushed or dull polished Stainless Steel Duplex sheet
Cold rolled, bright annealed Duplex sheet	Bright-pickled Stainless Steel Duplex sheet	Cold rolled, heat treated, pickled Duplex sheet
Ground Stainless Steel Duplex sheet	Cold rolled, heat treated Duplex sheet	10K Mirror Finish Surface SS Duplex sheet
Hot Selling AISI SS Duplex sheet	3mm Cold Rolled AISI SS Duplex sheet	Gold Etched SS Duplex sheet
SS Duplex Rose Golden sheet	Mill Supply SS Duplex sheet	18 Gauge SS Duplex sheet
Surface coated Stainless Steel Duplex sheet	Grade Prime SS Duplex sheet	Patterned Stainless Steel Duplex sheet
Satin finish Stainless Steel Duplex sheet	Carpenter Custom 450 Stainless Steel Duplex sheet	Finish Stainless Steel Duplex sheet
AISI stainless steel Duplex armor sheet	Cut to Size Stainless Steel Duplex sheet	Patterned Stainless Steel Duplex sheet
Satin finish Stainless Steel Duplex sheet	Non Magnetic Polishing Stainless Steel Duplex sheet	Passenger Elevator Cabin SS Duplex sheet
Mirror Finish SS Duplex sheet	ASME SA240 Duplex sheet	SS Duplex sheet Gold Brush Finish