



## Stainless Steel Plates & Sheets

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For further information, please contact to the following department or nearest office

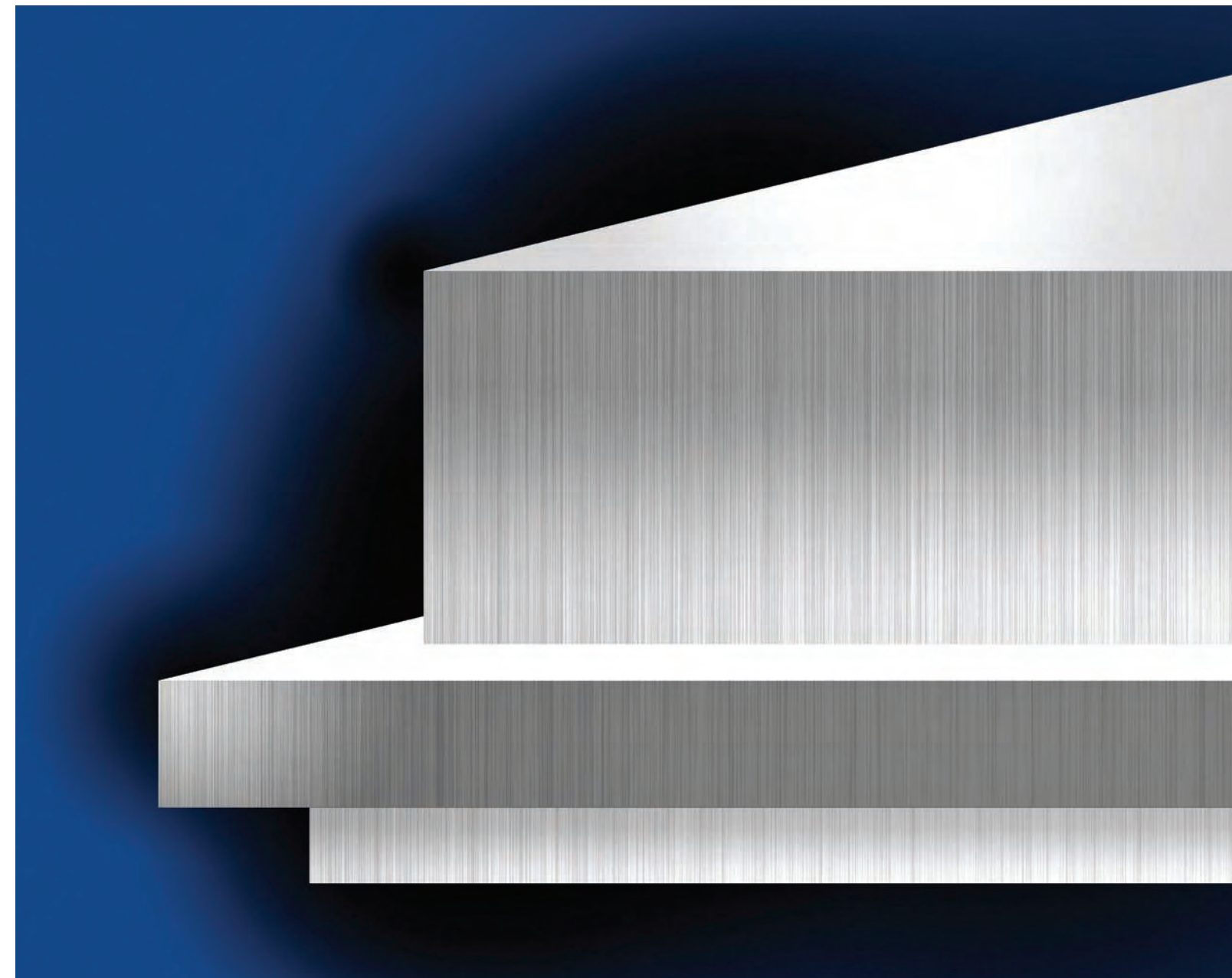
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**Nippon Steel & Sumikin Stainless Steel Corporation Head Office**  
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**Nippon Steel & Sumikin Stainless Steel Corporation**



# Stainless Steel Plates & Sheets

**Nippon Steel & Sumikin Stainless Steel Corporation**





The stainless steel divisions of Nippon Steel Corporation and Sumitomo Metal Industries, Ltd. were consolidated into a new company named Nippon Steel & Sumikin Stainless Steel Corporation in 2003.

The most sophisticated stainless steel manufacturing technologies as well as state-of-the-art quality control systems, developed and held by each of these two companies, have now been integrated and wholly taken over by this new company.

Moreover, as Nippon Steel & Sumikin Stainless Steel Corporation plans to strengthen R&D focusing on stainless steel, the company is confident that it will be able to meet the strictest requirements demanded by customers with its stainless steel plates and sheets.

## Stainless Steel Plates & Sheets

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Information Required with Orders

#### Important notice

The technical information in this document simply describes typical characteristics and performance of the product and does not provide any guarantees except for the items clearly stated as specifications or standard values.  
Note that NSSC takes no responsibility whatsoever for damage resulting from user failure to observe the instructions presented in this document or improper handling of the product.  
The information presented in this document is subject to change without notice. Please contact the relevant division for the latest information.  
No part of this document may be copied or reproduced in any form without the consent of NSSC.

## Stainless Steel Plates & Sheets

### Features

Our abundant sizes and superior quality should lead you to the new horizon of high cost performance.

#### 1 Wide Range of Products covering Large-Size Plates

- We have established technologies for extra large-size plates with the state-of-the-art production lines including a quarto rolling mill.
- Large plates will enable you to curtail the welding process in fabrication and, as a result, they contribute to reducing your cost and time.
- Large plates will also diminish the size of the undesirable heat-affected zone caused by welding.

#### 2 High Performance Corrosion Resistance, with Abundant Grades for Various Applied Circumstances

- Up-to-date equipment, such as a heat treatment furnace, roller quencher, spray type cooling system, and so on, provide complete solid solution treatments for steel products.  
Moreover, those facilities produce a wide range of grades designed for use in various kinds and levels of corrosive environments.  
Authentic technical data on each product are available anytime for your reference.

#### 3 Quality in Uniformly Highest Level

- Superior technology as well as extensive quality control from steelmaking to finishing assure the stable production of stainless steel plates in uniformly of excellent quality.

#### 4 Prompt Delivery

- An exclusive rolling mill is available at all times for the production of stainless steel plates.  
Moreover, an unrivaled volume production system and strict quality control program assure smooth production and on-time delivery.

#### 5 Marvelously Aesthetic Surface Finishes

- We apply the process of surface finishing to our products by pickling or buff-polishing.  
We would sincerely like you to enjoy the marvelously aesthetic surface finishes of our products.
- Levels of finishing can be adjusted according to your requirements.



# Application Examples



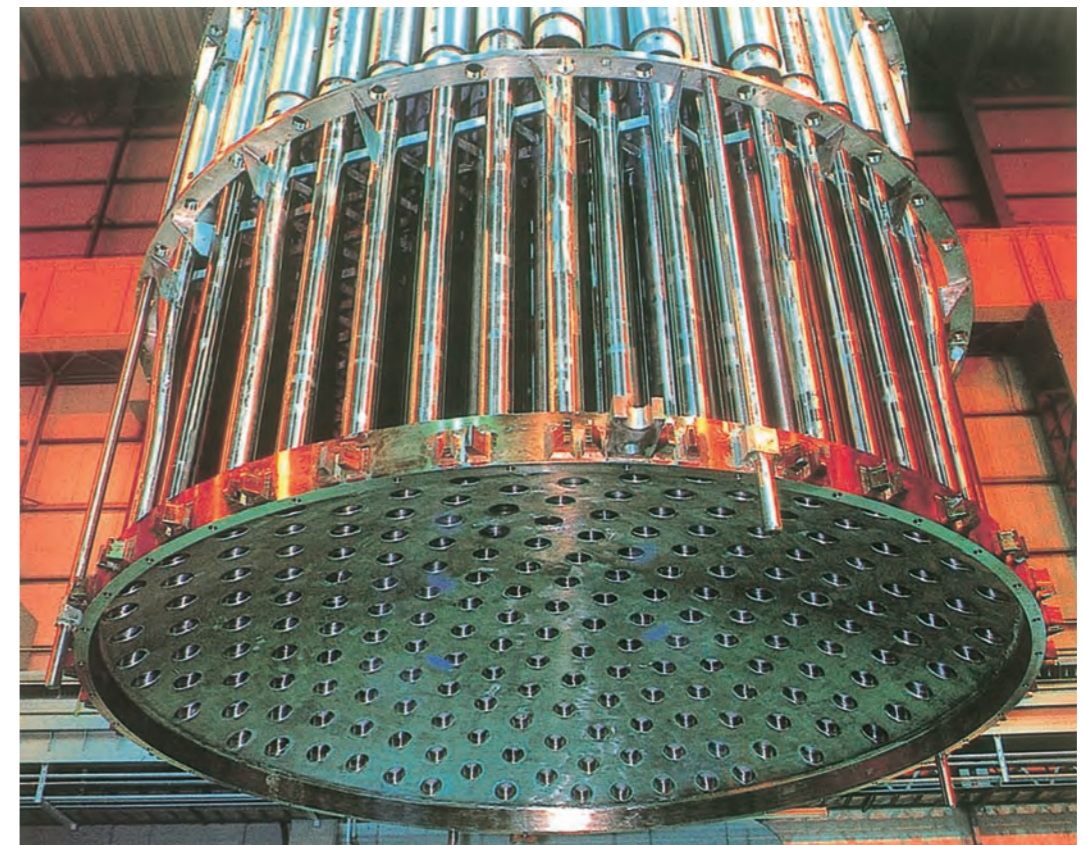
Beer tanks



LNG satellite



Hot water tanks



Shroud head of light-water reactor for nuclear power plant



# Application Examples



Chemical tanker



Dam's head gate tower



Petrochemical plant

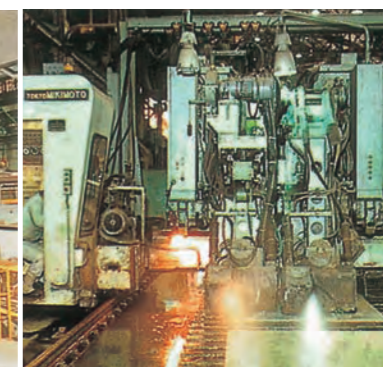
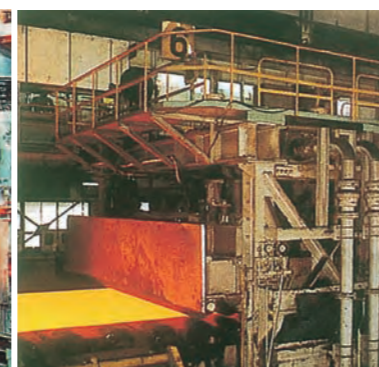
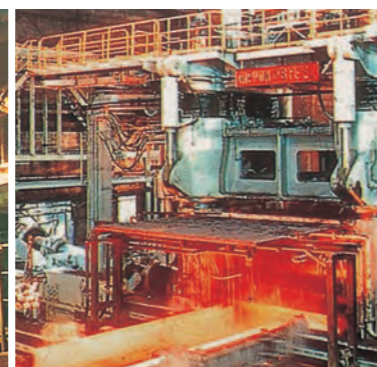
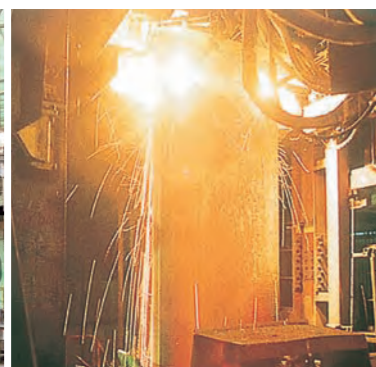
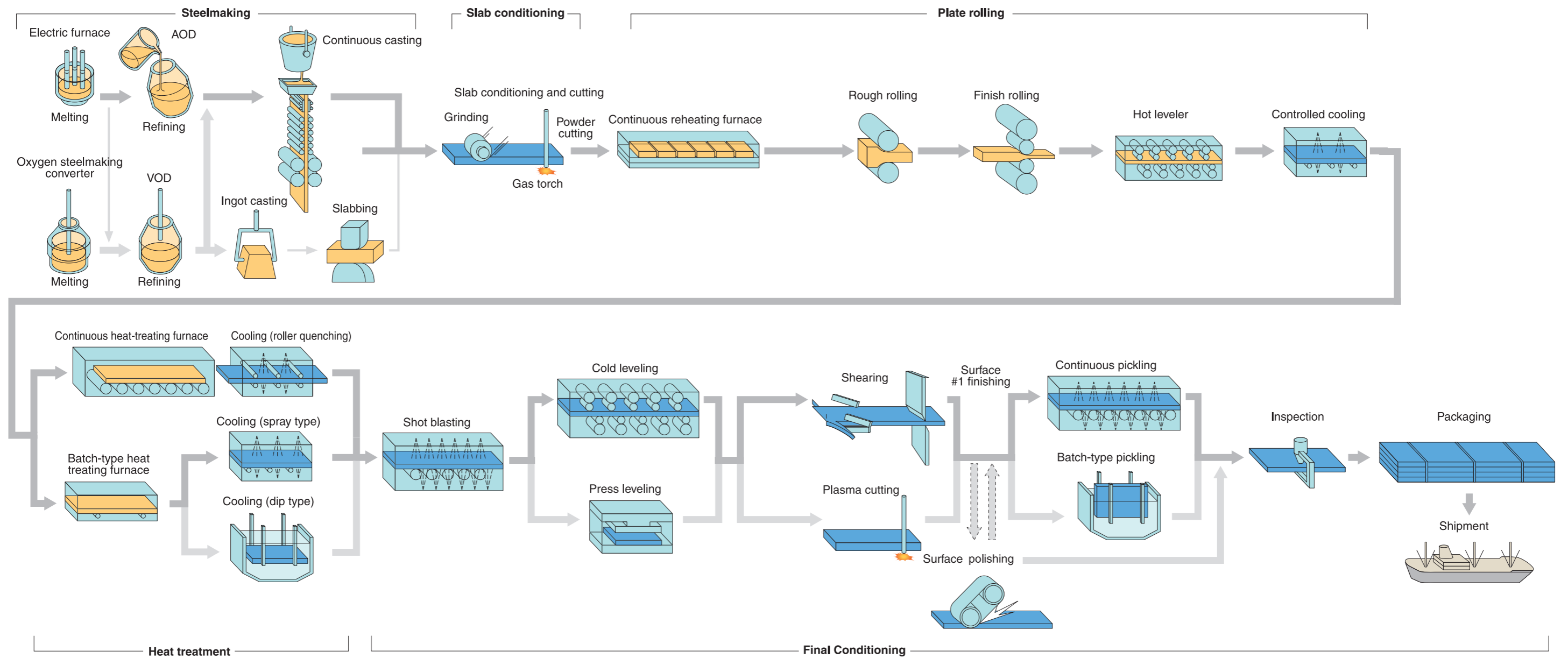


Water supply plant



# Manufacturing Flow

VOD : Vacuum Oxygen Decarburization  
 AOD : Argon Oxygen Decarburization  
 RQ : Roller Quench



Electric furnace

Continuous caster

Plate rolling mill

Roller Quenching cooler

Multi-purpose cutter

Continuous pickling line

Belt polisher

In-line inspection

# Available Product Grades

Stainless Steel Group	Grade			Chemical Composition (%)									Mechanical Properties					
	ASTM (A240M) Type	Symbol of Grades (NSSC)	Others (JIS)	C	Si	Mn	P	S	Ni	Cr	Mo	Others	Tensile Properties			Hardness		Bend Test
													Yield Strength MPa	Tensile Strength MPa	Elongation %	HBW	HRBS or HRBW (HV)	
Austenitic Steels	304		SUS 304	≤0.07	≤0.75	≤2.00	≤0.045	≤0.030	8.0/10.5	17.5/19.5	—	N≤0.10	≥205	≥515	≥40	≤201	≤92	—
	304H			0.04/0.10	≤0.75	≤2.00	≤0.045	≤0.030	8.0/10.5	18.0/20.0	—		≥205	≥515	≥40	≤201	≤92	—
	304L		SUS 304L	≤0.030	≤0.75	≤2.00	≤0.045	≤0.030	8.0/12.0	17.5/19.5	—	N≤0.10	≥170	≥485	≥40	≤201	≤92	—
	304N		SUS 304N1	≤0.08	≤0.75	≤2.00	≤0.045	≤0.030	8.0/10.5	18.0/20.0	—	N:0.10/0.16	≥240	≥550	≥30	≤217	≤95	—
	304LN		SUS 304LN	≤0.030	≤0.75	≤2.00	≤0.045	≤0.030	8.0/12.0	18.0/20.0	—	N:0.10/0.16	≥205	≥515	≥40	≤217	≤95	—
	309S		SUS 309S	≤0.08	≤0.75	≤2.00	≤0.045	≤0.030	12.0/15.0	22.0/24.0	—		≥205	≥515	≥40	≤217	≤95	—
	310S		SUS 310S	≤0.08	≤1.50	≤2.00	≤0.045	≤0.030	19.0/22.0	24.0/26.0	—		≥205	≥515	≥40	≤217	≤95	—
	316		SUS 316	≤0.08	≤0.75	≤2.00	≤0.045	≤0.030	10.0/14.0	16.0/18.0	2.00/3.00	N≤0.10	≥205	≥515	≥40	≤217	≤95	—
	316L		SUS 316L	≤0.030	≤0.75	≤2.00	≤0.045	≤0.030	10.0/14.0	16.0/18.0	2.00/3.00	N≤0.10	≥170	≥485	≥40	≤217	≤95	—
	316H			0.04/0.10	≤0.75	≤2.00	≤0.045	≤0.030	10.0/14.0	16.0/18.0	2.00/3.00		≥205	≥515	≥40	≤217	≤95	—
	316LN		SUS 316LN	≤0.030	≤0.75	≤2.00	≤0.045	≤0.030	10.0/14.0	16.0/18.0	2.00/3.00	N:0.10/0.16	≥205	≥515	≥40	≤217	≤95	—
	317L		SUS 317L	≤0.030	≤0.75	≤2.00	≤0.045	≤0.030	11.0/15.0	18.0/20.0	3.0/4.0	N≤0.10	≥205	≥515	≥40	≤217	≤95	—
	317LN		SUS 317LN	≤0.030	≤0.75	≤2.00	≤0.045	≤0.030	11.0/15.0	18.0/20.0	3.0/4.0	N:0.10/0.22	≥240	≥550	≥40	≤217	≤95	—
	321		SUS 321	≤0.08	≤0.75	≤2.00	≤0.045	≤0.030	9.0/12.0	17.0/19.0	—	N≤0.10 Ti:5X(C+N)/0.70	≥205	≥515	≥40	≤217	≤95	—
	347		SUS 347	≤0.08	≤0.75	≤2.00	≤0.045	≤0.030	9.0/13.0	17.0/19.0	—	Nb:10XC/1.00	≥205	≥515	≥40	≤201	≤92	—
	904L		SUS 890L	≤0.020	≤1.00	≤2.00	≤0.045	≤0.035	23.0/28.0	19.0/23.0	4.0/5.0	N≤0.10 Cu:1.0/2.0	≥220	≥490	≥35	—	≤90	—
	S31254	(NSSC 270)		≤0.020	≤0.80	≤1.00	≤0.030	≤0.010	17.5/18.5	19.5/20.5	6.0/6.5	N:0.18/0.22 Cu:0.50/1.00	≥310	≥655	≥35	≤223	≤96	—
		NSSC 170	SUS 317J2	≤0.06	≤1.50	≤2.00	≤0.045	≤0.030	12.00/16.00	23.00/26.00	0.50/1.20	N:0.25/0.40	≥345	≥690	≥40	≤250	≤100	—
		NSSC 304N		≤0.080	≤1.00	≤2.50	≤0.040	≤0.030	7.50/10.50	18.00/20.00	—	N≤0.25 Nb≤0.14	≥345	≥690	≥40	≤250	≤100	—
		NSSC 260		≤0.030	≤1.50	≤2.00	≤0.040	≤0.030	13.50/16.50	18.50/21.50	2.50/3.50	N:0.16/0.24 Cu:1.00/2.00	≥275	≥550	≥35	≤217	≤95	—
	NSSC 260A		≤0.030	≤1.00	≤2.00	≤0.040	≤0.030	13.00/17.00	20.00/23.00	3.00/4.00	N:0.10/0.22 Cu:1.50/3.00	≥315	≥600	≥35	≤217	≤95	—	
	NSSC 250		≤0.030	≤1.50	≤2.00	≤0.040	≤0.030	16.00/20.00	24.00/27.00	1.50/3.50	N:0.15/0.35	≥345	≥690	≥40	≤250	≤100 (≤260)	—	
	NSSC 270	SUS 312L	≤0.020	≤0.80	≤1.00	≤0.030	≤0.015	17.50/19.50	19.00/21.00	6.00/7.00	N:0.16/0.25 Cu:0.50/1.00	≥300	≥650	≥35	≤223	≤96 (≤230)	—	

# Available Product Grades

Stainless Steel Group	Grade			Chemical Composition (%)									Mechanical Properties					
	ASTM (A240M) Type	Symbol of Grades (NSSC)	Others (JIS)	C	Si	Mn	P	S	Ni	Cr	Mo	Others	Tensile Properties			Hardness		Bend Test
													Yield Strength MPa	Tensile Strength MPa	Elongation %	HBW	HRBS or HRBW (HV)	
Ferritic Steels	405		SUS 405	≤0.08	≤1.00	≤1.00	≤0.040	≤0.030	≤0.60	11.5/14.5	—	Al:0.10/0.30	≥170	≥415	≥20	≤179	≤88	180°
	430		SUS 430	≤0.12	≤1.00	≤1.00	≤0.040	≤0.030	≤0.75	16.0/18.0	—		≥205	≥450	≥22	≤183	≤89	180°
	444	(NSSC 190L)	SUS 444	≤0.025	≤1.00	≤1.00	≤0.040	≤0.030	≤1.00	17.5/19.5	1.75/2.50	N≤0.035 *	≥275	≥415	≥20	≤217	≤96	180°
		NSSC 410W		≤0.030	≤1.00	≤1.00	≤0.040	≤0.030	—	11.50/13.50	—		≥205	≥440	≥22	≤183	≤88	180°
		NSSC 410WM		≤0.030	≤0.50	≤1.00	≤0.035	≤0.025	≤0.50	10.75/12.00	—	N≤0.025	≥315	≥430	≥20	≤230	(≤240)	90°
		NSSC 190L		≤0.015	≤0.50	≤0.50	≤0.040	≤0.030	—	18.00/20.00	1.75/2.25	Cb≥8x(C+N) V≤0.20,N≤0.015	≥275	≥410	≥22	≤217	≤96	180°
		NSSC 409L		≤0.030	≤1.00	≤1.00	≤0.040	≤0.030	—	10.50/11.45	—	Ti:6×C/0.75	≥175	≥360	≥28	—	(≤180)	180°
Martensitic Steels	410		SUS 410	0.08/0.15	≤1.00	≤1.00	≤0.040	≤0.030	≤0.75	11.5/13.5	—		≥205	≥450	≥20	≤217	≤96	180°
	410S		SUS 410S	≤0.08	≤1.00	≤1.00	≤0.040	≤0.030	≤0.60	11.5/13.5	—		≥205	≥415	≥22	≤183	≤89	180°
Austenitic-Ferritic Steels	S32101		LDX2101 <sup>**</sup>	≤0.040	≤1.00	4.0/6.0	≤0.040	≤0.030	1.35/1.70	21.0/22.0	0.10/0.80	N:0.20/0.25 Cu:0.10/0.80	≥450	≥650	≥30	≤290	—	—
	S32304			≤0.030	≤1.00	≤2.50	≤0.040	≤0.030	3.0/5.5	21.5/24.5	0.05/0.60	N:0.05/0.20 Cu:0.05/0.60	≥400	≥600	≥25	≤290	≤32 (HRC)	—
	S31803	NSSC DX1	SUS 329J3L	≤0.030	≤1.00	≤2.00	≤0.030	≤0.020	4.5/6.5	21.0/23.0	2.5/3.5	N:0.08/0.20	≥450	≥620	≥25	≤293	≤31 (HRC)	—
	S32205			≤0.030	≤1.00	≤2.00	≤0.030	≤0.020	4.5/6.5	22.0/23.0	3.0/3.5	N:0.14/0.20	≥450	≥655	≥25	≤293	≤31 (HRC)	—
	S32750			≤0.030	≤0.80	≤1.20	≤0.035	≤0.020	6.0/8.0	24.0/26.0	3.0/5.0	N:0.24/0.32 Cu≤0.50	≥550	≥795	≥15	≤310	≤32 (HRC)	—
			SUS 329J4L	≤0.030	≤1.00	≤1.50	≤0.040	≤0.030	5.50/7.50	24.00/26.00	2.50/3.50	N:0.08/0.30	≥450	≥620	≥18	≤302	(≤320)	—

\*\* Sold under license from Outokumpu Stainless AB (re. patents on LDX2101<sup>®</sup> grade)

\*  $Ti + Cb: 0.20 + 4(C+N) / 0.80$

## Quality Management System (at Yawata Works)

Examiner	Products	Accreditation		Registration Number
		Quality System	Scope of Accreditation	
JIC Quality Assurance Ltd.	Stainless Steel and Stainless Clad Steel Plates	ISO9001-2000	Design, Development and Production of Stainless Steel and Stainless Clad Steel Plates	1886

## Approved Standards (at Yawata Works)

Examiner	Products	Accreditation		Registration Number
		Quality System	Scope of Accreditation	
JIC Quality Assurance Ltd.	Stainless Steel Plates	JIS G 4304	Stainless Steel Plates (Cut-plate and in Coil)	QA0806001
TÜV	Stainless Steel Plates	PED97/23/EC	Remark : European Pressure Vessels Direction	01 202 J/Q-02 0005
		AD2000 W0	Remark : German Technology Standard	No.0035

## Ship Classification Societies (at Yawata Works)

Society	Products
Nippon Kaiji Kyokai (NK)	Stainless Steel and Stainless Clad Steel Plates Works Approval Yawata Works
Lloyd's Register of Shipping (LR)	Stainless Steel and Stainless Clad Steel Plates
Det Norske Veritas (DNV)	Stainless Steel and Stainless Clad Steel Plates
Bureau Veritas (BV)	Stainless Steel and Stainless Clad Steel Plates Works Approval Yawata Works (Mode I)
The American Bureau of Shipping (ABS)	Stainless Clad Steel Plates
The Korean Register of Shipping (KR)	Stainless Steel and Stainless Clad Steel Plates



# Sizes Available

## Ferritic Steels / Martensitic Steels (TYPE 405, 410, 430, 444, NSSC 190L)

### Size

Width (m) Thickness (mm)	1.5	2.0	2.5	3.0	3.5	4.0	4.5
4.0 to less than 4.5 4.0~4.5	Available	Available	Available				
4.5~5.0	Available	Available	Available	Available			
5.0~5.5	Available	Available	Available	Available			
5.5~6.0	Available	Available	Available	Available			
6.0~7.0	Available	Available	Available	Available			
7.0~8.0	Available	Available	Available	Available			
8.0~9.0	Available	Available	Available	Available			
9.0~10.0	Available	Available	Available	Available			
10.0~12.0	Available	Available	Available	Available			
12.0~20.0	Available	Available	Available	Available			
20.0~30.0	Available	Available	Available	Available			
30.0~40.0	Available	Available	Available	Available			
40.0~50.0	Available	Available	Available	Available			
50.0~60.0	Available	Available	Available	Available			
60.0~80.0							
80.0~100.0							
100.0~120.0							
120.0~200.0							

### Length



### Unit Weight



Minimum Size Width  $\geq 1,219\text{mm}$ , Length  $\geq 2,000\text{mm}$

Please contact us when you need other type or size than mentioned above.

- Orders are always acceptable with standard delivery time.
- Orders are acceptable subject to conditions.
- TYPE 444, NSSC 190L Orders are always acceptable.
- TYPE 444, NSSC 190L Orders are acceptable subject to conditions.

## Austenitic Steels ① (TYPE 304, 304L, 321, 347, 309S, 310S)

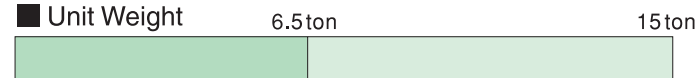
### Size

Width (m) Thickness (mm)	1.5	2.0	2.5	3.0	3.5	4.0	4.5
4.0 to less than 4.5 4.0~4.5	Available	Available	Available				
4.5~5.0	Available	Available	Available	Available			
5.0~5.5	Available	Available	Available	Available			
5.5~6.0	Available	Available	Available	Available			
6.0~7.0	Available	Available	Available	Available			
7.0~8.0	Available	Available	Available	Available			
8.0~9.0	Available	Available	Available	Available			
9.0~10.0	Available	Available	Available	Available			
10.0~12.0	Available	Available	Available	Available			
12.0~20.0	Available	Available	Available	Available			
20.0~30.0	Available	Available	Available	Available			
30.0~40.0	Available	Available	Available	Available		Available (Thickness $\geq 18\text{mm}$ )	
40.0~50.0	Available	Available	Available	Available		Available (Thickness $\geq 18\text{mm}$ )	
50.0~60.0	Available	Available	Available	Available		Available (Thickness $\geq 18\text{mm}$ )	
60.0~80.0	Available	Available	Available	Available		Available (Thickness $\geq 18\text{mm}$ )	
80.0~90.0	Available	Available	Available	Available		Available (Thickness $\geq 18\text{mm}$ )	
90.0~100.0	Available	Available	Available	Available		Available (Thickness $\geq 18\text{mm}$ )	
100.0~110.0	Available	Available	Available	Available		Available (Thickness $\geq 18\text{mm}$ )	
110.0~120.0	Available	Available	Available	Available		Available (Thickness $\geq 18\text{mm}$ )	
120.0~200.0	Available	Available	Available	Available		Available (Thickness $\geq 18\text{mm}$ )	

### Length



### Unit Weight



Minimum Size Width  $\geq 1,219\text{mm}$ , Length  $\geq 2,000\text{mm}$

Please contact us when you need other type or size than mentioned above.

Maximum thickness by specific type is as below.  
 120mm for TYPE 321  
 45mm for TYPE 347  
 50mm for TYPE 309S, TYPE 310S

- Orders are always acceptable with standard delivery time.
- Orders are acceptable subject to conditions.



**Austenitic Steels ② (TYPE 316, 316L, 317L)**

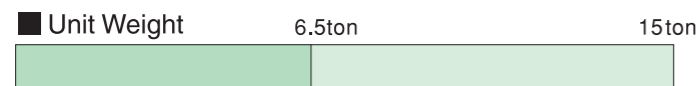
■ Size

Width (m) Thickness (mm)	1.5	2.0	2.5	3.0	3.5	4.0	4.5
4.0 to less than 4.5 4.0~4.5	Available	Available	Available	Available	Available	Available	Available
4.5~5.0	Available	Available	Available	Available	Available	Available	Available
5.0~5.5	Available	Available	Available	Available	Available	Available	Available
5.5~6.0	Available	Available	Available	Available	Available	Available	Available
6.0~7.0	Available	Available	Available	Available	Available	Available	Available
7.0~8.0	Available	Available	Available	Available	Available	Available	Available
8.0~9.0	Available	Available	Available	Available	Available	Available	Available
9.0~10.0	Available	Available	Available	Available	Available	Available	Available
10.0~12.0	Available	Available	Available	Available	Available	Available	Available
12.0~20.0	Available	Available	Available	Available	Available	Available	Available
20.0~30.0	Available	Available	Available	Available	Available	Available	Available
30.0~40.0	Available	Available	Available	Available	Available	Available	Available
40.0~50.0	Available	Available	Available	Available	Available	Available	Available
50.0~60.0	Available	Available	Available	Available	Available	Available	Available
60.0~80.0	Available	Available	Available	Available	Available	Available	Available
80.0~90.0	Available	Available	Available	Available	Available	Available	Available
90.0~100.0	Available	Available	Available	Available	Available	Available	Available
100.0~110.0	Available	Available	Available	Available	Available	Available	Available
110.0~120.0	Available	Available	Available	Available	Available	Available	Available
120.0~200.0	Available	Available	Available	Available	Available	Available	Available

■ Length



■ Unit Weight



■ Minimum Size Width ≥ 1,219mm, Length ≥ 2,000mm

Please contact us when you need other type or size than mentioned above.

Orders are always acceptable with standard delivery time.

Orders are acceptable subject to conditions.

TYPE 317L : Thickness ≤ 50mm

**Austenitic-Ferritic (Dual-phase) Steels (S31803, S32304, S32101, NSSC DX1)**

■ Size

Width (m) Thickness (mm)	1.5	2.0	2.5	3.0	3.5	4.0	4.5
4.0 to less than 4.5 4.0~4.5	Available	Available	Available	Available	Available	Available	Available
4.5~5.0	Available	Available	Available	Available	Available	Available	Available
5.0~5.5	Available	Available	Available	Available	Available	Available	Available
5.5~6.0	Available	Available	Available	Available	Available	Available	Available
6.0~7.0	Available	Available	Available	Available	Available	Available	Available
7.0~8.0	Available	Available	Available	Available	Available	Available	Available
8.0~9.0	Available	Available	Available	Available	Available	Available	Available
9.0~10.0	Available	Available	Available	Available	Available	Available	Available
10.0~12.0	Available	Available	Available	Available	Available	Available	Available
12.0~20.0	Available	Available	Available	Available	Available	Available	Available
20.0~30.0	Available	Available	Available	Available	Available	Available	Available
30.0~35.0	Available	Available	Available	Available	Available	Available	Available
35.0~40.0	Available	Available	Available	Available	Available	Available	Available
40.0~45.0	Available	Available	Available	Available	Available	Available	Available
45.0~50.0	Available	Available	Available	Available	Available	Available	Available
50.0~60.0	Available	Available	Available	Available	Available	Available	Available
60.0~80.0	Available	Available	Available	Available	Available	Available	Available
80.0~100.0	Available	Available	Available	Available	Available	Available	Available
100.0~200.0	Available	Available	Available	Available	Available	Available	Available

■ Length



■ Unit Weight



■ Minimum Size Width ≥ 1,219mm, Length ≥ 2,000mm

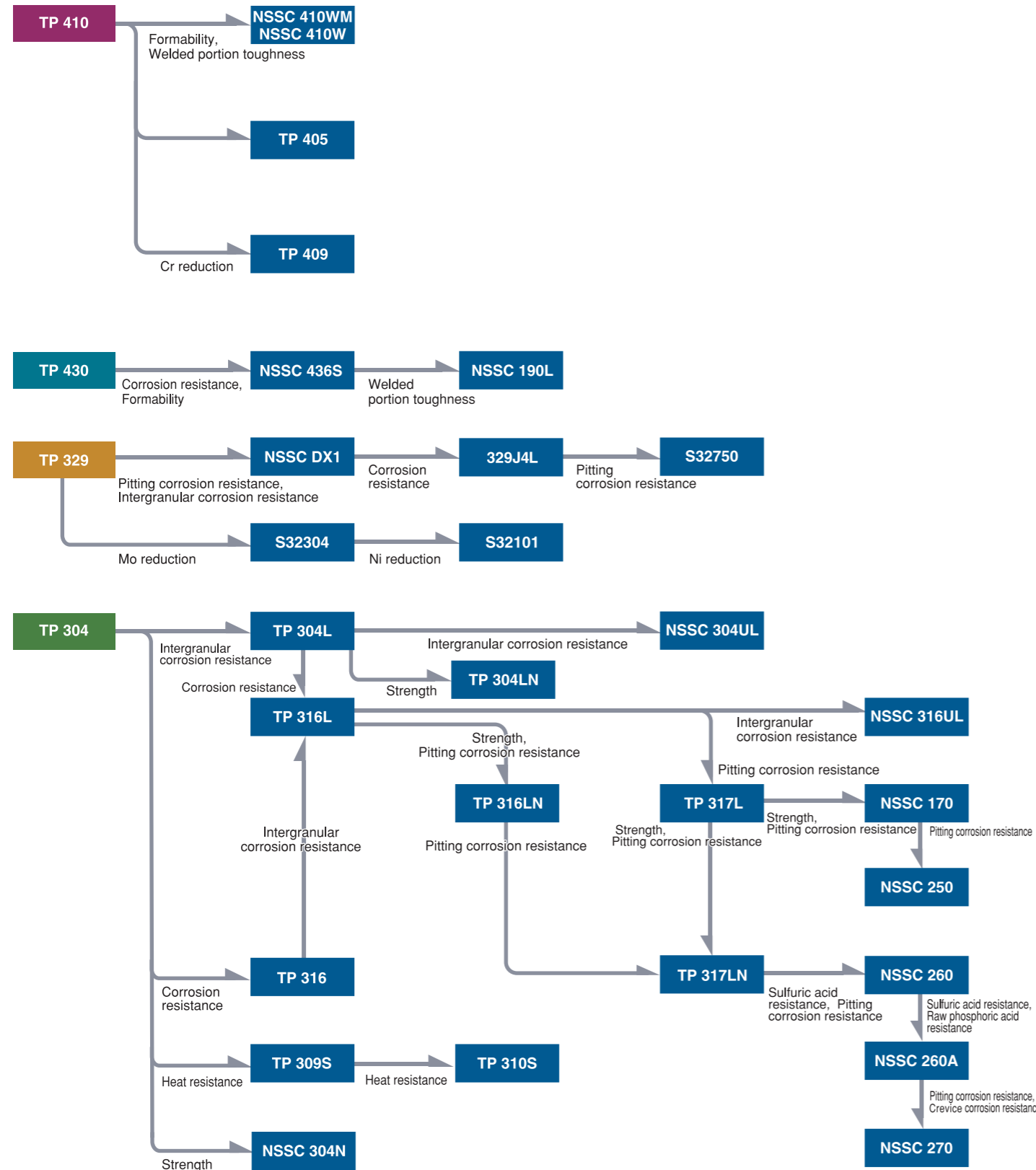
Please contact us when you need other type or size than mentioned above.

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Orders are acceptable subject to conditions.



# Guide to Selection of Appropriate Grade of NSSC Series Stainless Steels



# List of NSSC Series Stainless Steels

Stainless Steel Group	Symbol of Grade (similar grade)	Chemical Composition	Corrosion resistance				Formability/Deep drawability	Strength	Heat-resistance	Weldability	Application examples
			Oxidation resistance	Stress corrosion resistance	Pitting corrosion resistance	Intergranular corrosion resistance					
Austenitic Steels	NSSC 270 (-)	20Cr-18Ni-6Mo-0.7Cu-0.2N-LC	○	○	○	○	○			Seawater water conversion device, Chimney, Salt manufacture plant, Food manufacture plant	
	NSSC 260A (-)	22Cr-16Ni-3.5Mo-2Cu-0.2N-LC	○		○	○	○			Chemical tanker, Chimney, Sulfuric acid plant	
	NSSC 260 (-)	20Cr-15Ni-3Mo-1.5Cu-0.2N-LC	○		○	○	○			Chimney, Sulfuric acid plant	
	NSSC 250	25Cr-18Ni-2.5Mo-0.3N-LC	○	○	○	○	○			Chemical plant, Food manufacture plant	
	NSSC 170 (SUS 317J2)	25Cr-13Ni-0.9Mo-0.3N			○		○			Exhaust gas desulfurizer, Waste fluid processor, High temperature usage	
	NSSC 304UL (SUS 304L)	18Cr-10Ni-ULC				○				Nuclear fuel reprocess equipment	
	NSSC 316UL (SUS 316L)	17Cr-15Ni-2Mo-ULC				○				Nuclear fuel reprocess equipment	
Austenitic-Ferritic Steels	NSSC DX1 (SUS 329J3L)	22Cr-5Ni-3Mo-0.13N-LC		○	○		○			Chemical plant, Energy related plant, Chemical tanker	
Ferritic Steels	NSSC 190L (SUS 444)	19Cr-2Mo-Nb-V-ULC-LN		○	○	○			○	Chemical plant, Hot water tank	
	NSSC 436S (-)	17Cr-1.2Mo-0.2Ti-LC-LN			○		○			Automotive exhaust system part, Kitchen equipment, Household electric appliances part, Building interior material, Gate	
	NSSC 410WM (SUS 410L)	11Cr-LC-LN-Ni							○	Marine container frame material	
	NSSC 410W (SUS 410L)	12Cr-LC							○	Heat-resistant equipment	
	NSSC 409L (SUH 409)	11Cr-Ti-LC							○	Equipment related to automotive exhaust system	

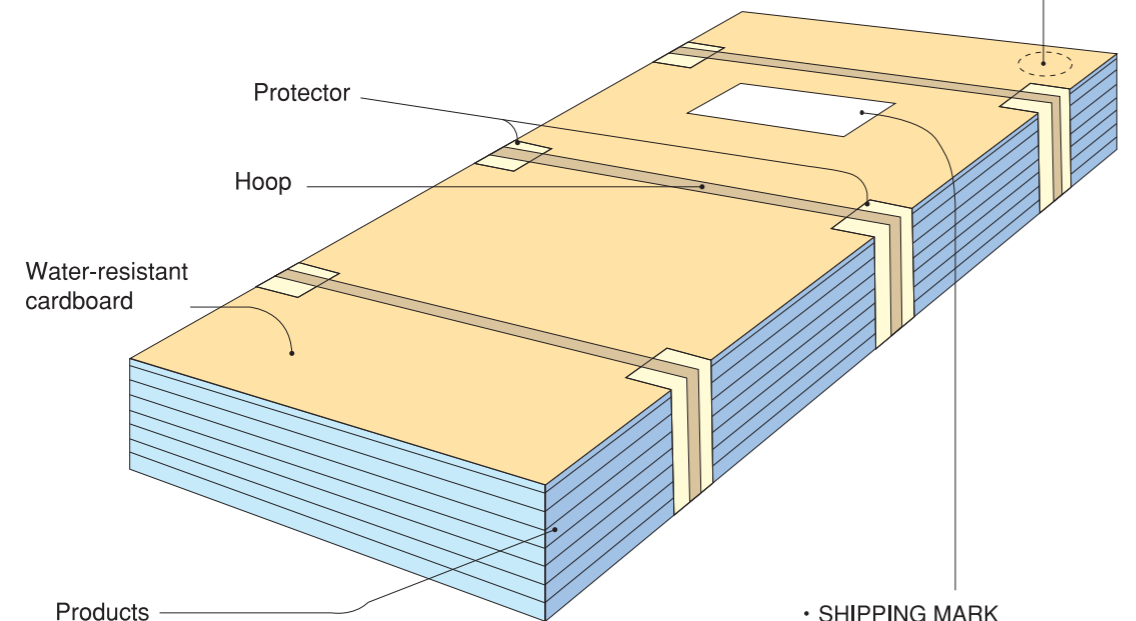


# Marking and Packaging

[Example]

Record on the actual product

Grade	A240 TYPE 304
Product Size	12×2500×6100
Heat Number	Heat No. E74800
Product Number (Plate Number)	Plate No.123456—01
Works name	NSSC YAWATA
Finish	No.1



- SHIPPING MARK
- GRADE
- SIZE
- FINISH
- NO. OF PLATE
- NET MASS
- GROSS MASS
- C/NO.
- NIPPON STEEL & SUMIKIN STAINLESS STEEL CORP.
- MADE IN JAPAN

# Precautions in Use

If stainless steel sheets are improperly handled or used, they cannot fully exhibit their characteristic features. When handling or using stainless steel sheets, attention should be paid to the following points.

## ● Storage and Unloading

1. If stainless steel sheets get wet during unloading or storage, rusting will occur. Accordingly, stringent care should be taken to avoid their unloading on rainy days or their getting wet by seawater. Storage at high humidity or in a sulfur-dioxide atmosphere should be avoided. Storage in a dry, clean place is recommended.
2. Damaged packing paper should be repaired.

## ● Handling

1. To avoid injury, do not handle unpacked sheets by bare hand. In handling these sheets, careful handling and use of protective gloves are recommended.

# Directions for Ordering

Stainless steel sheet and strip can demonstrate their optimum characteristic performances when the appropriate steel grade is properly selected in terms of application, design, fabrication and other similar conditions. Please place your orders after obtaining the advice of Nippon Steel & Sumikin Stainless Steel regarding the above conditions.

## ● When placing orders

Please include the following information as specifically as possible.

1. Standard to be applied  
for example, JIS G 4304, AISI, ASTM, any special specification, etc.
2. Grade  
for example, JIS (SUS No.), AISI (Type No.), etc.
3. Surface Finish  
as heat-treated or not, pickled or not, Buff finish No., one or both side(s)
4. Size  
Thickness×Width×Length (availability of enlarged scale)
5. Volume  
Number of plate(s) and weight
6. Usage and how to be processed  
Name of plant, Temperature to be applied, Pressure, Kind of liquid or gas applied, Method and conditions of processing, Method of welding, etc.
7. Delivery time

## ● Technical services

Please feel free to consult Nippon Steel & Sumikin Stainless Steel's headquarters as to technical matters such as grade selection and applications of stainless steel sheet and strip. Nippon Steel & Sumikin Stainless Steel is ready to offer appropriate technical services on the basis of extensive research and expertise and achievements accumulated over long years of technical services.