



# Stainless Steel Coil & Sheet

# Purpose & Passion

Purpose is the Future  
Passion is the Present

Purpose is the Destination  
Passion is the Way to it

When Purpose is right and invaluable  
Passion never stops and never dries up

You are our Purpose,  
our Future and our Destination  
We are making every effort to get to you,  
with great Passion

You are always right and invaluable  
We will never stop and will never dry up.

## Introduction

Elyon Industry Co Ltd is all about metal products. We supply Copper, Copper Alloy, Stainless Steel, Nickel Alloy, Zinc Alloy, Titanium, Carbon Steel, and special metals in the form of strip, coil, sheet/plate, wire, bar/rod, extrusion, tube/pipe, etc.

Purpose & Passion are our spirit and the followings are our principles.

- Proactive
- Prompt
- Precise

Speedy & In - time Delivery, Consistent & Reliable Quality and Competitive Prices are melted with our spirit & principles. All our metal products are supplied from manufacturing sites or through supply network if necessary.

You are our purpose and we are passion itself. NOW is the time for you to try our passion.

Thanks

# Elyon's professional

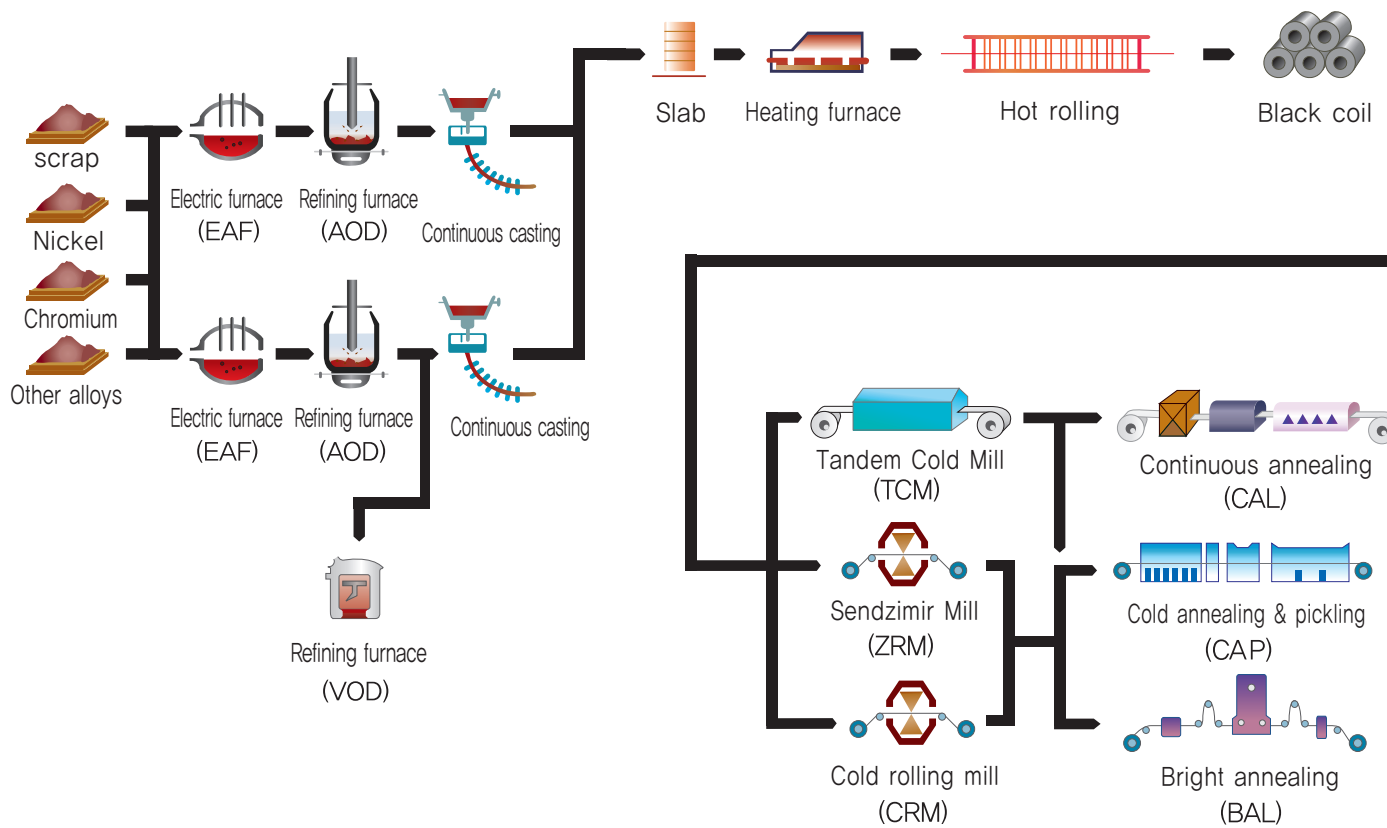
## 3P Services

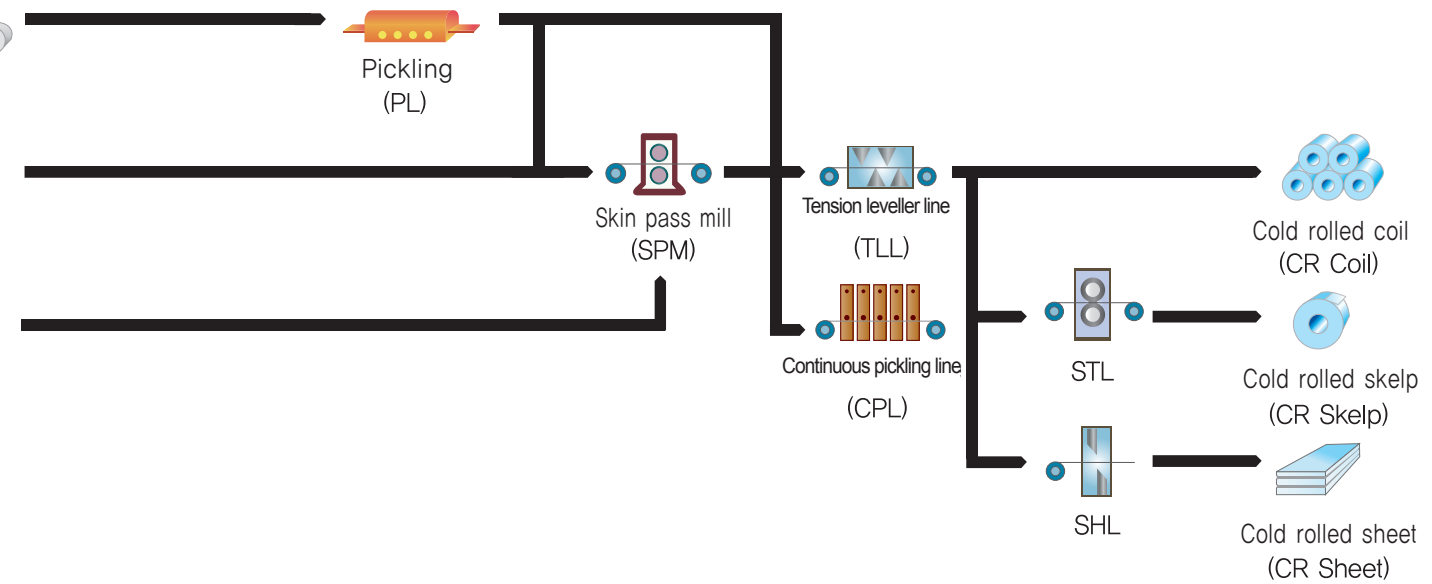
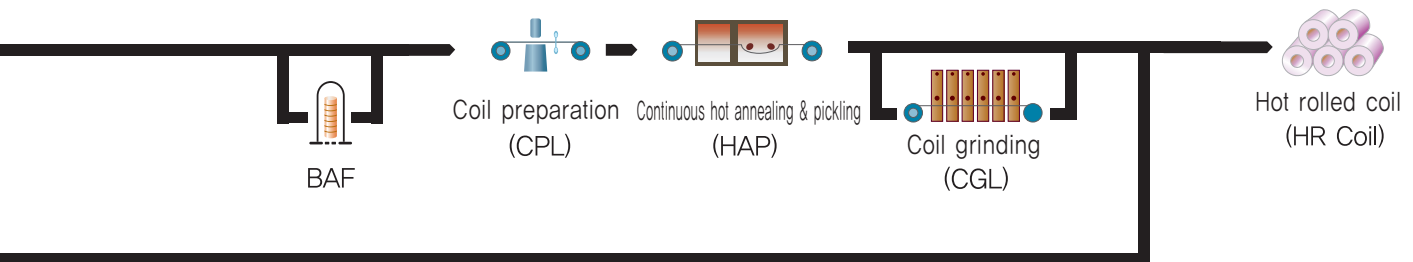


*Why  
Elyon?*

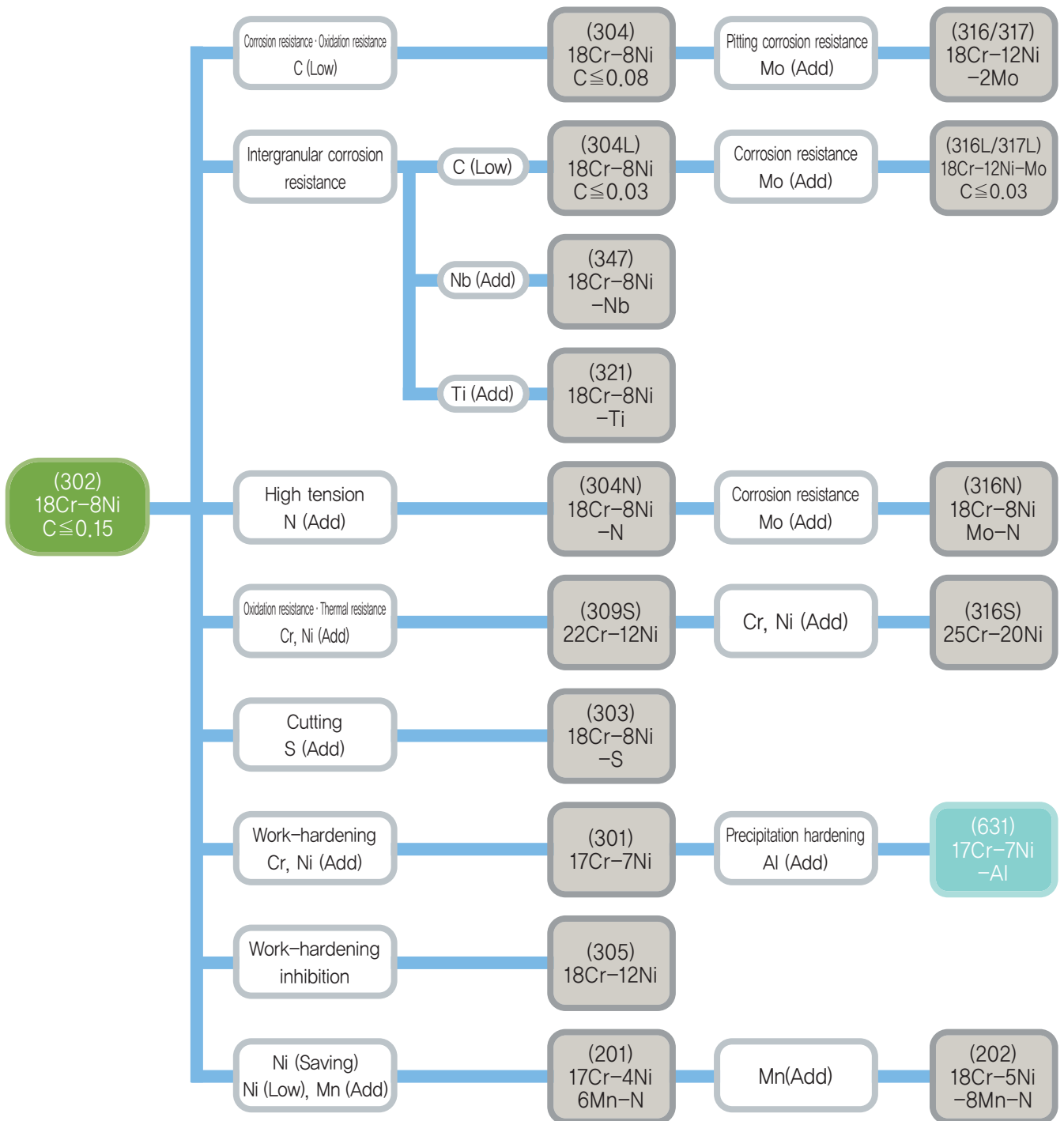
**E**fficient Products Line  
**L**ead Time  
**Y**ield High Quality  
**O**utstandingly Small MOQ  
**N**ice Service, plus Wealth of Knowledge & Experience on Metals

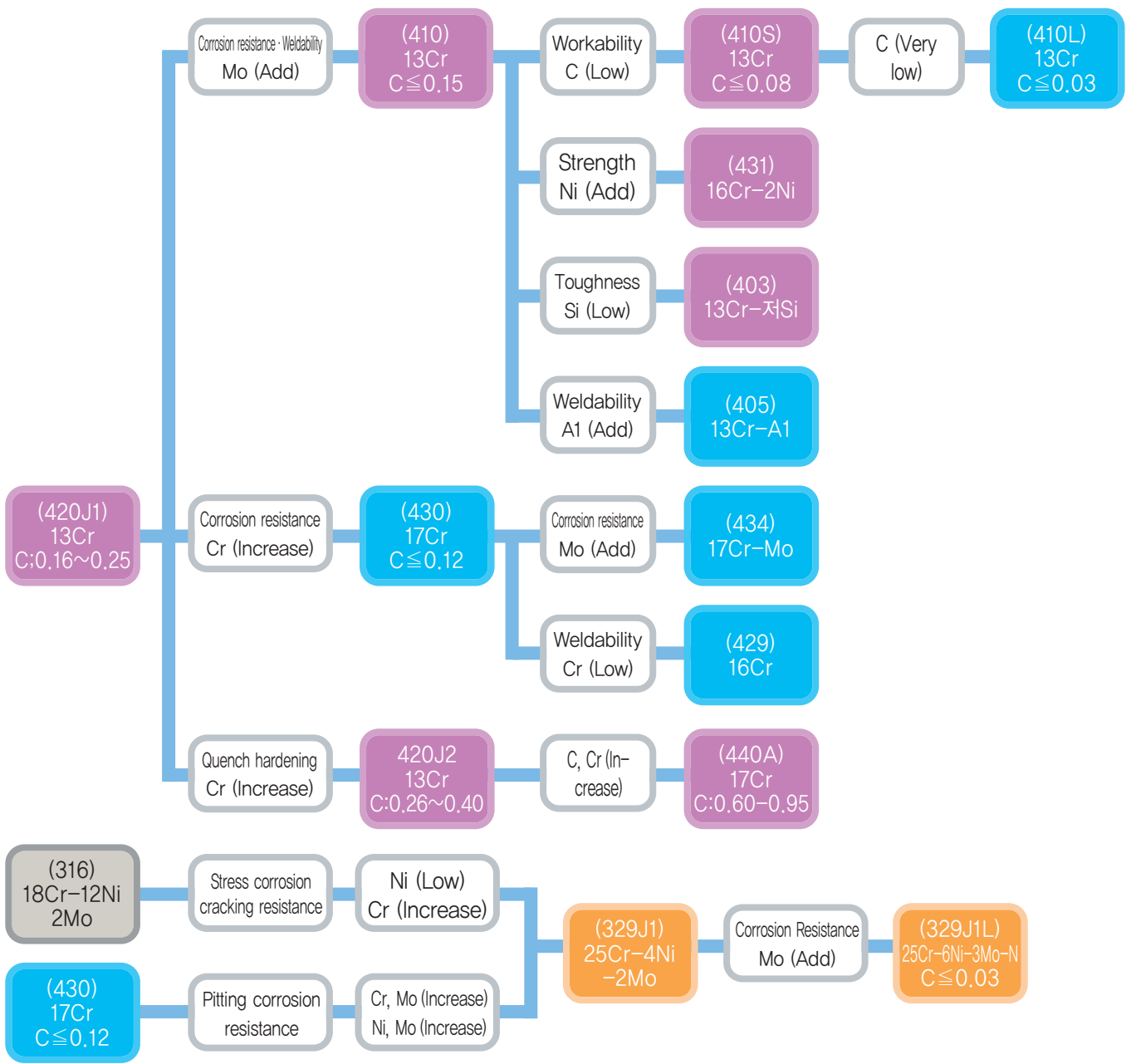
# Manufacturing Process of Stainless Steel Coil & Sheet





# Stainless Steel Scheme





Note	■ Austenite type	■ Ferrite type	■ Precipitation hardening type.
	■ Martensite type	■ Duplex type	

# Chemical/Physical Properties of Stainless Steel

Structure	Steel grade		Chemical composition(%)									Chemical properties				Physical properties			
	KS(JIS)	POSCO	C	Si	Mn	P	S	Cr	Ni	Mo	Others	Internal force (0.2%) (N/mm <sup>2</sup> )	Tensile strength (N/mm <sup>2</sup> )	Elongation (%)	Hardness (Hv)	Specific heat J/g°C	Specific gravity	Coefficient of thermal expansion W/m.°C (20~100°C)	Thermal conductivity W/m.°C (100°C)
A U S T E N I T E	201	201	≤0.15	≤1.0	5.50~7.50	≤0.06	≤0.03	16.0~18.0	3.50~5.50	-	N≤0.25	≥245	≥640	≥40	≤253				
	202	202	≤0.15	≤1.0	7.50~10.0	≤0.06	≤0.03	17.0~19.0	4.00~6.00	-	N≤0.25	≥245	≥590	≥40	≤218				
	301	301	≤0.15	≤1.0	≤2.0	≤0.045	≤0.03	16.0~18.0	6.00~8.00	-	-	≥205	≥520	≥40	≤218	0.50	7.93	16.9	16.3
	301L	301L	≤0.03	≤1.0	≤2.0	≤0.045	≤0.03	16.0~18.0	6.00~8.00	-	N≤0.2	≥215	≥550	≥45	≤200	0.50	7.93	16.9	16.3
	301L J1	-	0.08~0.12	≤1.0	≤2.0	≤0.045	≤0.03	16.0~18.0	7.00~9.00	-	-	≥205	≥570	≥45	≤200				
	302	-	≤0.15	≤1.0	≤2.0	≤0.045	≤0.03	17.0~19.0	8.00~10.00	-	-	≥205	≥520	≥40	≤200				
	302B	-	≤0.15	2.0~3.0	≤2.0	≤0.045	≤0.03	17.0~19.0	8.00~10.00	-	-	≥205	≥520	≥40	≤218				
	304	304	≤0.08	≤1.0	≤2.0	≤0.045	≤0.03	18.0~20.0	8.00~10.50	-	-	≥205	≥520	≥40	≤200	0.50	7.93	17.3	16.3
	304L	304L	≤0.03	≤1.0	≤2.0	≤0.045	≤0.03	18.0~20.0	9.00~13.00	-	-	≥175	≥480	≥40	≤200	0.50	7.93	17.3	16.3
	304NI	304NI	≤0.08	≤1.0	≤2.50	≤0.045	≤0.03	18.0~20.0	7.00~10.50	-	N0.10~0.25	≥275	≥550	≥35	≤220	0.50	7.93	17.3	16.3
	304N2	-	≤0.08	≤1.0	≤2.50	≤0.045	≤0.03	18.0~20.0	7.00~10.50	-	Nb ≤ 0.15 N0.15~0.30	≥345	≥690	≥35	≤260				
	304L N	304L N	≤0.03	≤1.0	≤2.00	≤0.045	≤0.03	17.0~19.0	8.50~11.50	-	N0.12~0.22	≥245	≥550	≥40	≤220	0.50	7.93	17.3	16.3
	304J1	304J1	≤0.08	≤1.7	≤3.00	≤0.045	≤0.03	15.0~18.0	6.00~9.00	-	Cu1.0~3.0	≥155	≥450	≥40	≤200	0.50	7.93	17.3	16.3
	304J2	-	≤0.08	≤1.7	3.00~5.00	≤0.045	≤0.03	15.0~18.0	6.00~9.00	-	Cu1.0~3.0	≥155	≥450	≥40	≤200				
	305	305EG	≤0.12	≤1.0	≤2.0	≤0.045	≤0.03	17.00~19.00	10.5~13.0	-	-	≥175	≥480	≥40	≤200	0.50	7.93	17.3	16.3
	309S	309S	≤0.08	≤1.0	≤2.0	≤0.045	≤0.03	22.0~24.0	12.0~15.0	-	-	≥205	≥520	≥40	≤200	0.50	7.98	15.9	14.2
	310S	310S	≤0.08	≤1.5	≤2.0	≤0.045	≤0.03	24.0~26.0	19.0~22.0	-	-	≥205	≥520	≥40	≤200	0.50	7.98	15.9	16.3
	316	316	≤0.08	≤1.0	≤2.0	≤0.045	≤0.03	16.0~18.0	10.00~14.0	2.00~3.00	-	≥205	≥520	≥40	≤200	0.50	7.98	15.9	16.3
	316L	316L	≤0.03	≤1.0	≤2.0	≤0.045	≤0.03	16.0~18.0	12.00~15.0	2.00~3.00	-	≥175	≥480	≥40	≤200	0.50	7.98	15.9	16.3
	316N	-	≤0.08	≤1.0	≤2.0	≤0.045	≤0.03	16.0~18.0	10.00~14.0	2.00~3.00	N0.10~0.22	≥275	≥550	≥35	≤220				
	316L N	316L N	≤0.03	≤1.0	≤2.0	≤0.045	≤0.03	16.5~18.5	10.5~14.5	2.00~3.00	N0.12~0.22	≥245	≥550	≥40	≤220	0.50	7.98	15.9	16.3
	316Ti	316Ti	≤0.08	≤1.0	≤2.0	≤0.045	≤0.03	16.8~18.0	10.00~14.0	2.00~3.00	Ti 5xC% 이상	≥205	≥520	≥40	≤200	0.50	7.98	15.9	16.3
	316J1	-	≤0.08	≤1.0	≤2.0	≤0.045	≤0.03	17.0~19.0	10.00~14.0	1.20~2.75	Cu 1.0~2.5	≥205	≥520	≥40	≤200				
	316J1L	-	≤0.03	≤1.0	≤2.0	≤0.045	≤0.03	17.0~19.0	12.00~16.0	1.20~2.75	Cu 1.0~2.5	≥175	≥480	≥40	≤200				
	317	-	≤0.08	≤1.0	≤2.0	≤0.045	≤0.03	18.0~20.0	11.00~15.00	3.00~4.00	-	≥205	≥520	≥40	≤200				
	317L	317L	≤0.03	≤1.0	≤2.0	≤0.045	≤0.03	18.0~20.0	11.00~15.00	3.00~4.00	-	≥175	≥480	≥40	≤200	0.486	7.98	16.5	14.4
	317LN	-	≤0.03	≤1.0	≤2.0	≤0.045	≤0.03	18.0~20.0	11.00~15.00	3.00~4.00	N0.10~0.22	≥245	≥550	≥40	≤220				
	317J1	-	≤0.04	≤1.0	≤2.50	≤0.045	≤0.03	16.0~19.0	15.00~17.00	4.00~6.00	-	≥175	≥480	≥40	≤200				
	317J2	-	≤0.06	≤1.5	≤2.00	≤0.045	≤0.03	23.0~26.0	12.00~16.00	0.50~1.20	N0.25~0.40	≥345	≥690	≥40	≤260				
	317J3L	-	≤0.03	≤1.0	≤2.00	≤0.045	≤0.03	20.50~22.50	11.00~13.00	2.00~3.00	N0.18~0.30	≥275	≥640	≥40	≤230				
	317J4L	-	≤0.03	≤1.0	≤2.00	≤0.045	≤0.03	19.00~24.00	24.00~26.00	5.00~7.00	N ≤ 0.25	≥205	≥520	≥35	≤230				
	317J5L	-	≤0.02	≤1.0	≤2.00	≤0.045	≤0.03	19.00~23.00	23.00~28.00	4.00~5.00	Cu 1.00~2.00	≥215	≥490	≥35	≤200				
	321	321	≤0.08	≤1.0	≤2.0	≤0.045	≤0.03	17.0~19.0	9.00~13.00	-	Ti 5xC% 이상	≥205	≥520	≥40	≤200	0.50	7.93	16.7	16.1
	347	347	≤0.08	≤1.0	≤2.0	≤0.045	≤0.03	17.0~19.0	9.00~13.00	-	Nb10 xC% 이상	≥205	≥520	≥40	≤200	0.50	7.98	16.7	16.1
	XM15J1	XM15J1	≤0.08	3.00~5.00	≤2.0	≤0.045	≤0.03	15.0~20.0	15.5~15.0	-	Si 3.0~5.0	≥205	≥520	≥40	≤218	0.50	7.75	13.8	16.3
	329J1	-	≤0.08	≤1.0	≤1.5	≤0.040	≤0.03	23.00~28.00	3.00~6.00	1.00~3.00	-	≥390	≥590	≥18	≤292				
	329J3L	329J3L	≤0.03	≤1.0	≤2.0	≤0.040	≤0.03	21.0~24.0	4.50~6.50	2.50~3.50	N 0.08~0.20	≥450	≥620	≥18	≤320	0.40	7.8	13.7	19.0
	329J4L	-	≤0.03	≤1.0	≤1.5	≤0.040	≤0.03	24.0~26.0	5.50~7.50	2.50~3.50	N 0.08~0.30	≥450	≥620	≥18	≤320				
	329LD	329LD	≤0.03	≤1.0	≤1.5	≤0.040	≤0.03	19.0~22.0	2.00~4.00	1.00~2.00	N 0.14~0.2 Mn 2.0~4.0	≥450	≥620	≥25	≤310	0.52	7.71	13.2	16.5
	405	-	≤0.08	≤1.0	≤1.0	≤0.040	≤0.03	11.50~14.50	-	-	Al 0.10~0.30	≥175	≥410	≥20	≤200				
409L	409L	≤0.03	≤1.0	≤1.0	≤0.040	≤0.03	10.50~11.75	-	-	Ti 6xC%~0.75	≥175	≥360	≥25	≤175	0.46	7.75	6.5	24.9	



Structure	Steel grade		Chemical composition(%)									Chemical properties				Physical properties			
	KS(JIS)	POSCO	C	Si	Mn	P	S	Cr	Ni	Mo	Others	Internal force (0.2%) (N/mm <sup>2</sup> )	Tensile strength (N/mm <sup>2</sup> )	Elongation (%)	Hardness (Hv)	Specific heat J/g°C	Specific gravity	Coefficient of thermal expansion W/m.°C (20~100°C)	Thermal conductivity W/m.°C (100°C)
F E R R I T E	-	HIPOS	≤0.03	≤1.0	≤1.0	≤0.040	≤0.03	12~14	-	-	Si ≤ 1.3	≥ 175	≥ 360	≥ 22	≤ 180	-	-	-	-
	410L	410L	≤0.03	≤1.0	≤1.0	≤0.040	≤0.03	11.00~13.50	-	-	-	≥ 195	≥ 360	≥ 22	≤ 200	0.46	7.75	9.9	25.1
	-	429EM	≤0.02	≤1.0	≤1.0	≤0.040	≤0.03	13.0~15.0	-	-	Si ≤ 1.5	≥ 205	≥ 400	≥ 25	≤ 180	0.456	7.62	10.6	20.9
	429	-	≤0.12	≤1.0	≤1.0	≤0.040	≤0.03	14.00~16.00	-	-	-	≥ 205	≥ 450	≥ 22	≤ 200				
	430	430	≤0.12	≤0.75	≤1.0	≤0.040	≤0.03	16.0~18.0	-	-	-	≥ 205	≥ 450	≥ 22	≤ 200	0.46	7.70	10.5	23.9
	430LX	-	≤0.030	≤0.75	≤1.0	≤0.040	≤0.03	16.0~19.0	-	-	Ti 또는 Nb 0.10~1.00	≥ 175	≥ 360	≥ 22	≤ 200				
	430J1L	430J1L	≤0.025	≤1.00	≤1.0	≤0.040	≤0.03	16.0~20.0	-	-	N ≤ 0.025 Nb 8x(C%+N%)~ 0.80 Cu 0.30~0.80	≥ 205	≥ 390	≥ 22	≤ 200	0.46	7.70	10.4	26.2
	430Ti	430Ti	≤0.02	≤1.00	≤1.0	≤0.040	≤0.03	19.5~20.5	-	-	Ti 0.3~0.6	≥ 206	≥ 422	≥ 25	≤ 180	0.46	7.70	10.4	26.4
	434	-	≤0.12	≤1.0	≤1.0	≤0.040	≤0.03	16.0~18.0	-	0.75~1.25	-	≥ 205	≥ 450	≥ 22	≤ 200				
	436L	436L	≤0.025	≤1.0	≤1.0	≤0.040	≤0.03	16.0~19.0	-	0.75~1.25	N ≤ 0.025 Ti, Nb, Zr 8x (C%+N%)~0.8	≥ 245	≥ 410	≥ 20	≤ 230	0.46	7.70	9.3	23.9
	436J1L	-	≤0.025	≤1.0	≤1.0	≤0.040	≤0.03	17.0~20.0	-	0.40~0.80	N ≤ 0.025 Nb 8x (C%+N%)~0.8	≥ 245	≥ 410	≥ 20	≤ 200				
	-	439	≤0.03	≤1.0	≤1.0	≤0.040	≤0.03	17.0~19.0	-	-	Ti 0.2~1.0	≥ 175	≥ 400	≥ 22	≤ 175	0.46	7.70	10.5	26.4
	-	441	≤0.03	≤1.0	≤1.0	≤0.040	≤0.03	17.5~18.5	≤1.0	-	Si ≤ 1.0 Ti 0.1~0.6 Nb 9C+0.3~1.0	≥ 250	430~630	≥ 25	≤ 175	0.462	7.60	10.1	27.1
	444	444	≤0.025	≤1.0	≤1.0	≤0.040	≤0.03	17.0~20.0	-	1.75~2.5	N ≤ 0.025 Ti, Nb, Zr 8x (C%+N%)~0.8	≥ 245	≥ 410	≥ 20	≤ 230	0.427	7.75	11.0	26.8
	-	445NF	≤0.015	≤1.0	≤1.0	≤0.040	≤0.03	20.0~23.0	≤0.5	-	Ti + Nb 10(C+N)~0.6	≥ 245	≥ 410	≥ 22	≤ 200	0.44	7.74	10.5	23
	446M	446M	≤0.015	≤1.0	≤1.0	≤0.040	≤0.03	25~28.5	≤0.3	1.5~2.5	Ti, Nb ≥ 8(C+N)	≥ 270	≥ 430	≥ 20	≤ 210	0.5	7.75	11.0	18.84
447J1	-	≤0.01	≤0.4	≤0.4	≤0.030	≤0.02	28.50~32.00	-	1.5~2.5	N ≤ 0.015	≥ 295	≥ 450	≥ 22	≤ 220					
XM27	-	≤0.01	≤0.4	≤0.4	≤0.030	≤0.02	25.00~27.50	-	0.75~1.5	N ≤ 0.015	≥ 245	≥ 410	≥ 22	≤ 200					
M A R T E N S I T E	403	-	≤0.15	≤0.5	≤1.0	≤0.040	≤0.03	11.50~13.50	-	-	-	≥ 205	≥ 440	≥ 20	≤ 210				
	410	410	≤0.15	≤1.0	≤1.0	≤0.04	≤0.03	11.5~13.5	-	-	-	≥ 205	≥ 440	≥ 20	≤ 210	0.46	7.70	9.9	24.9
	410S	-	≤0.08	≤1.0	≤1.0	≤0.04	≤0.03	11.5~13.5	-	-	-	≥ 205	≥ 410	≥ 20	≤ 200				
	-	410B	≤0.15	≤1.0	≤1.0	≤0.04	≤0.03	11.5~13.5	≤0.6	-	-	≥ 205	≥ 440	≥ 20	≤ 210	0.46	7.75	9.9	24.9
	-	420N1	0.170이하	≤1.0	≤1.0	≤0.04	≤0.03	12.0~14.0	-	-	N ≤ 0.14	≥ 225	≥ 520	≥ 18	≤ 218	0.46	7.75	10.3	23.8
	420J1	-	0.16~0.25	≤1.0	≤1.0	≤0.04	≤0.03	12.0~14.0	-	-	-	≥ 225	≥ 520	≥ 18	≤ 234				
	420J2	420J2	0.26~0.4	≤1.0	≤1.0	≤0.04	≤0.03	12.0~14.0	-	-	-	≥ 225	≥ 540	≥ 18	≤ 247	0.46	7.75	10.3	23.8
	429J1	-	0.25~0.4	≤1.0	≤1.0	≤0.04	≤0.03	15.00~17.00	-	-	-	≥ 225	≥ 520	≥ 18	≤ 253				
440A	-	0.60~0.75	≤1.0	≤1.0	≤0.04	≤0.03	16.0~18.0	-	-	-	≥ 245	≥ 590	≥ 15	≤ 269					
Precipitation hardening type	630	-	≤0.07	≤1.0	≤1.0	≤0.04	≤0.03	15.0~17.5	3.00~5.00	-	Cu 3.0~5.0 Nb 0.15~0.45								
	631	-	≤0.09	≤1.0	≤1.0	≤0.04	≤0.03	16.0~18.0	6.50~7.75	-	Al 0.75~1.50								

## Typical Types of Stainless Steel

Classification		Austenite Type	Martensite Type	Ferrite Type
Representative Steel Grade		STS304	STS410	STS430
Main Elements		18%Cr–8%Ni	13%Cr	18%Cr
Heat Treatment		Solution heat treatment	Quenched after annealing	Annealing
Hardening		Work hardening	Quench–hardening	Non–quench hardening
Main Use		Building exterior/interior materials Kitchenware Chemical plants For aircraft	Building material parts Automobile parts Home & office appliances Kitchenware, tableware	Building material parts Automobile parts Home appliances & kitchenware Tableware
Corrosion Resistance		High	Moderate	High
Quality Features	Strength	High	High	Moderate
	Workability	High	Low	Moderate
	Magnetism	Paramagnetism	Paramagnetism	Paramagnetism
	Weldability	High	Low	Moderate

## Spring Grade of Stainless Steel

Steel grade	Refining sign	Hardness (Hv)	Tensile test		
			Internal force	Tensile strength	Elongation(%)
			kgf/mm <sup>2</sup>	kgf/mm <sup>2</sup>	
STS 301–CSP	1/2H	Over 310...	Over 52...	Over 95...	Over 10...
	3/4H	Over 370...	Over 76...	Over 115...	Over 5...
	H	Over 430...	Over 105...	Over 135...	–
	EH	Over 490...	Over 130...	Over 160...	–
STS 304–CSP	1/2H	Over 250...	Over 48...	Over 80...	Over 6...
	3/4H	Over 310...	Over 68...	Over 95...	Over 3...
	H	Over 370...	Over 90...	Over 115...	–

## Types of Surface Finish

Surface treatment sign			
No. 1	No.2D	No.2B	No.3
No.4	HL	BA	DULL

# Cold Rolled Stainless Steel Coil

## Thickness Tolerance

(Unit: mm)

Thickness \ Width	Thickness Tolerance					
	160 Under	160 Over 250 Under	250 Over 400 Under	400 Over 630 Under	630 Over 1000 Under	1000 Over 1250 Under
0.10 Over 0.16 Under	±0.015	±0.020	–	–	–	–
0.16 Over 0.25 Under	±0.020	±0.025	±0.030	±0.030	–	–
0.25 Over 0.40 Under	±0.025	±0.030	±0.035	±0.035	±0.038	±0.038
0.40 Over 0.60 Under	±0.035	±0.040	±0.040	±0.040	±0.040	±0.040
0.60 Over 0.80 Under	±0.040	±0.045	±0.045	±0.045	±0.05	±0.05
0.80 Over 1.00 Under	±0.040	±0.05	±0.05	±0.05	±0.05	±0.06
1.00 Over 1.25 Under	±0.05	±0.05	±0.05	±0.06	±0.06	±0.07
1.25 Over 1.60 Under	±0.05	±0.06	±0.06	±0.06	±0.07	±0.07
1.60 Over 2.00 Under	±0.06	±0.07	±0.08	±0.08	±0.09	±0.10
2.00 Over 2.50 Under	±0.07	±0.08	±0.08	±0.09	±0.10	±0.11
2.50 Over 3.00 Under	±0.08	±0.09	±0.09	±0.10	±0.11	±0.12

\* Please consult with us for the specifications not listed here



## Width Tolerance

Thickness \ Width	Width Tolerance				
	160 Under	160 Over 250 Under	250 Over 400 Under	400 Over 630 Under	630 Over 1000 Under
0.60 Under	±0.15	±0.20	±0.25	±0.30	±0.50
0.60 Over 1.00 Under	±0.20	±0.25	±0.25	±0.30	±0.50
1.00 Over 1.60 Under	±0.20	±0.30	±0.30	±0.40	±0.60
1.60 Over 2.50 Under	±0.25	±0.35	±0.35	±0.50	±0.70
2.50 Over 3.00 Under	±0.30	±0.40	±0.40	±0.50	±0.80

\* Please consult with us for the specifications not listed here

# Hot Rolled Stainless Steel Coil



## Thickness Tolerance

Thickness \ Width	Thickness Tolerance			
	800 Less than	800 Over 1000 Less than	1000 Over 1250 Less than	1250 Over 1600 Less than
2.00 Over 2.50 Less than	±0.20	–	–	–
2.50 Over 3.15 Less than	±0.23	±0.25	±0.30	±0.35
3.15 Over 4.00 Less than	±0.26	±0.30	±0.35	±0.40
4.00 Over 5.00 Less than	±0.29	±0.38	±0.40	±0.45
5.00 Over 6.00 Less than	±0.32	±0.45	±0.45	±0.50
6.00 Over 8.00 Less than	–	±0.55	±0.60	±0.60

\* Please consult with us for the specifications not listed here

## Width Tolerance

(Unit: mm)

Edge	Thickness	Width	Width Tolerance	
			+	-
Mill Edge	–	–	+30	-0
			+10	-0
Slit Edge	6.00 Less than	–	+15	-0
	6.00 Over	–	+15	-0

\* Please consult with us for the specifications not listed here

## Plate

(Unit: mm)

Thickness \ Width	Thickness Tolerance				
	1250 Over 1600 Under	1600 Over 2000 Under	2000 Over 2500 Under	2500 Over 3150 Under	3150 Over 3230 Under
9.0 Over 10.0 Under	±0.65	±0.80	±1.2	±1.5	±1.6
10.0 Over 16.0 Under	±0.70	±0.85	±1.2	±1.5	±1.6
16.0 Over 25.0 Under	±0.80	±0.95	±1.3	±1.5	±1.6
25.0 Over 40.0 Under	±0.90	±1.1	±1.3	±1.5	±1.6
40.0 Over 63.0 Under	±1.2	±1.2	±1.4	±1.5	±1.6
63.0 Over 80.0 Under	±1.3	±1.3	±1.5	±1.6	±1.7

\* Please consult with us for the specifications not listed here

# Global's Specification of Stainless Steel

KS(STS) JIS(SUS)	ISO	Foreign Standards						Europe Standards EN	
		America		British	Germany	France	Russia	Classification	Number
		UNS	AISI	BS	DIN	NF	ROCT		
201	A-2	S20100	201			Z12CMN17-07Az	12X17T9AH4	X12CrMnNiN17-7-5	1.4372
202	A-3	S20200	202	284S16			07X16H6	X12CrMnNiN18-9-5	1.4373
301	14	S30100	301	301S21	X12CrNi17 7	Z11CN17-08		X10CrNi18-8	1.4310
301L					X2CrNi18 7			X2CrNi18-7	1.4318
301J1					X12CrNi17 7		12X18H9		
302	12,10(1)	S30200	302	302S25		Z12CN18-09			
302B		S30215	302B						
303	17	S30300	303	303S21	X10CrNiS18 9	Z8CNF 18-09	12X18H10E	X8CrNiS18-9	1.4305
303Se	17a	S30323	303Se	303S41			08X18H10		
304	11	S30400	304	304S31	X5CrNi18 10	Z7CN18-09	13X18H11	X4CrNi18-10	1.4301
304N1	10	S30403	304L	304S11	X2CrNi19 11	Z3CN19-11		X2CrNi19-11	1.4307
304N2		S30451	304N			Z6CN19-09Az		X2CrNi18-9	1.4306
304LN	10N	S30453	304LN		X2CrNi18 10	Z3CN18-10Az		X2CrNiV18-10	1.4311
304J3		S30431	S30431						
305		S30500	305	305S19	X5CrNi18 12	Z8CN18-12	06X18H11	X4CrNi18-12	1.4303
309S	13	S30908	309S			Z10CN24-13			
310S	13(1)	S31008	310S	310S31		Z8CN25-20	10X23H18	X6CrNi25-20	
316	16(1)	S31600	316	316S31	X5CrNiMo17 122	Z7CND17-12-02		X4CrNiMo17-12-2	1.4401
316L	20				X5CrNiMo17 133	Z6CND18-12-03		X4CrNiMo17-13-3	1.4436
	20a	S31603	316L	316S11	X5CrNiMo17 132	Z3CND17-12-02		X2CrNiMo17-12-2	1.4404
					X5CrNiMo17 143	Z3CND17-13-03	03X17H14M3	X2CrNiMo17-13-3	1.4432
								X2CrNiMo18-14-3	1.4435
316N		S31651	316N						
316LN	19N	S31653	316LN		X2CrNiMoN17 122	Z3CND17-11Az		X2CrNiMoN17-11-2	1.4406
	19aN				X2CrNiMoN17 132	Z3CND17-12Az		X2CrNiMoN17-13-3	1.4429
316Ti		S31635			X6CrNiMoN17 122	Z6CND17-12	08X17H13M2T	X6CrNiMoTi17-12-2	1.4571
317		S31700	317	317S16					
317L	24	S31703	317L	317S12	X2CrNiMoN18 164	Z3CND19-15-04		X2CrNiMo18-15-4	1.4438
317LN		S31753				Z3CND19-14Az		X2CrNiMo18-12-4	1.4434
317J1								X2CrNiMoN17-13-5	1.4439
317J4L		N08367							
317J5L	A-4	N08904	N08904	904S14		Z2NCU25-20		X1CrNiMoCuN25-25-5	1.4539
321	15,11(1)	S32100	321	321S31	X6CrNiTi18 10	Z6CNT18-10	08X18H10T	X6CrNiTi18 10	1.4541
347	16,12(1)	S34700	347	347S31	X6CrNiNb18 10	Z6CNNb18-10	08X18H12B	X6CrNiNb18 10	1.455
384	D25(2)	S38400	384			Z6CN18-16			
XMT	D26(2)	S30430	304Cu	394S17		Z2CNU18-10		X3CrNiCu18-9-4	1.4587
XM15J1		S38100				Z15CNS20-12		X1CrNiSi18-15-4	1.4381
329J1		S32900	329						
329J3L		S39240	S31803			Z3CNDU22-05Az	08X21H6M2T	X2CrNiMoN22-5-3	1.4462
329J4L		S39275	S31260			Z3CNDU25-07Az		X2CrNiMoCuN25-6-3	1.4507
405	2	S40500	405	405S17	X6CrAl13	Z8CA12		X6CrAl13	1.4002
410L						Z3C14			
429		S42900	429						
430	8, 4(1)	S43000	430	434S17	X6Cr17	Z8C17	12X17	X6Cr17	1.4016
430F	8a	S43020	430F		X7CrMoS18	Z8CF17		X6CrMoS17	1.4105
430LX	8b	S43035			X6CrTi17	Z4CT17		X3CrTi17	1.4510
					X6CrNb17			X2CrTi17	1.4520
430J1L						Z4CNb17		X3CrNb17	1.4511
434	9c	S43400	434	434S17	X6CrMo17 1	Z8CD17-01		X6CrMoTi17-1	1.4113
436L		S43600	436					X1CrMoTi16-1	1.4513
444	F1	S44400	444			Z3CDT18-02		X2CrMoTi18-2	1.4521
447J1		S44700							
XM27		S44627				Z1CD26-01			
403		S40300	403						
410	3	S41000	410	410S21	X10Cr13	Z13C13		X12Cr13	1.4006
410S	1	S41008	410S	403S17	X6Cr13	Z8C12	08X13	X6Cr13	1.4000
410J1		S41025							
416	7	S41600	416	416S21		Z11CF13		X12CrS13	1.4005
420J1	4	S42000	420	420S29	X20Cr13	Z20C13	20X13	X20Cr13	1.4021
420J2	5	S42000	420	420S37	X30Cr13	Z33C13	30X13	X30Cr13	1.4028
420F		S42020	420F			Z30CF13		X29CrS13	1.4029
431	9b	S43100	431	431S29	X20CrNi17 2	Z15CN16-02	20X17H2	X19CrNi17 2	1.4057
440A		S44002	440A			Z70C15		X70CrMo15	1.4109
440B		S44003	440B						
440C	A-1b	S44004	440C			Z100CD17	95X18	X105CrMo17	1.4125
440F		S44020	S44020						
630	1(3)	S17400	S17400			Z6CNU17-04		XCrNiCuNb16-4	1.4542
631	2(3)	S17700	S17700		X7CrNiAl17 7	Z9CNA17-07	09X17H7 10	X7CrNiAl17-7	1.4568



## We are also available with this metals.

### Copper

- Tough Pitch Copper
- Phosphorus Deoxidized Copper
- Oxygen Free with Ag Copper
- Chrome Copper
- Beryllium Copper
- Tellurium Copper

### Brass

- Red Brass
- Yellow Brass
- Leaded Brass
- Free Cutting Brass
- Forging Brass
- Naval Brass
- Silicon Red Brass
- High Strength Brass

### Bronze

- Phosphor Bronze
- Free Cutting Phosphor Bronze
- Phosphor Bronze Casting
- Leaded Tin Bronze Casting
- Bronze Casting
- Silicon Bronze
- Aluminum Bronze Casting
- Architectural Bronze Low Leaded
- Low Fuming Bronze
- Manganese Bronze

**Nickel Silver**  
**Cupro Nickel(Cu-Ni)**  
**Cu-Fe**  
**Nickel Alloy**  
**Zinc Alloy**





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