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HEAD OFFICE



KAWAGUCHI MATERIAL CENTER



KAWAGUCHI QC CENTER



CHINA FACTORY



OSAKA STAINLESS

NICKEL ALLOYS & MORE

24-09-1500-174

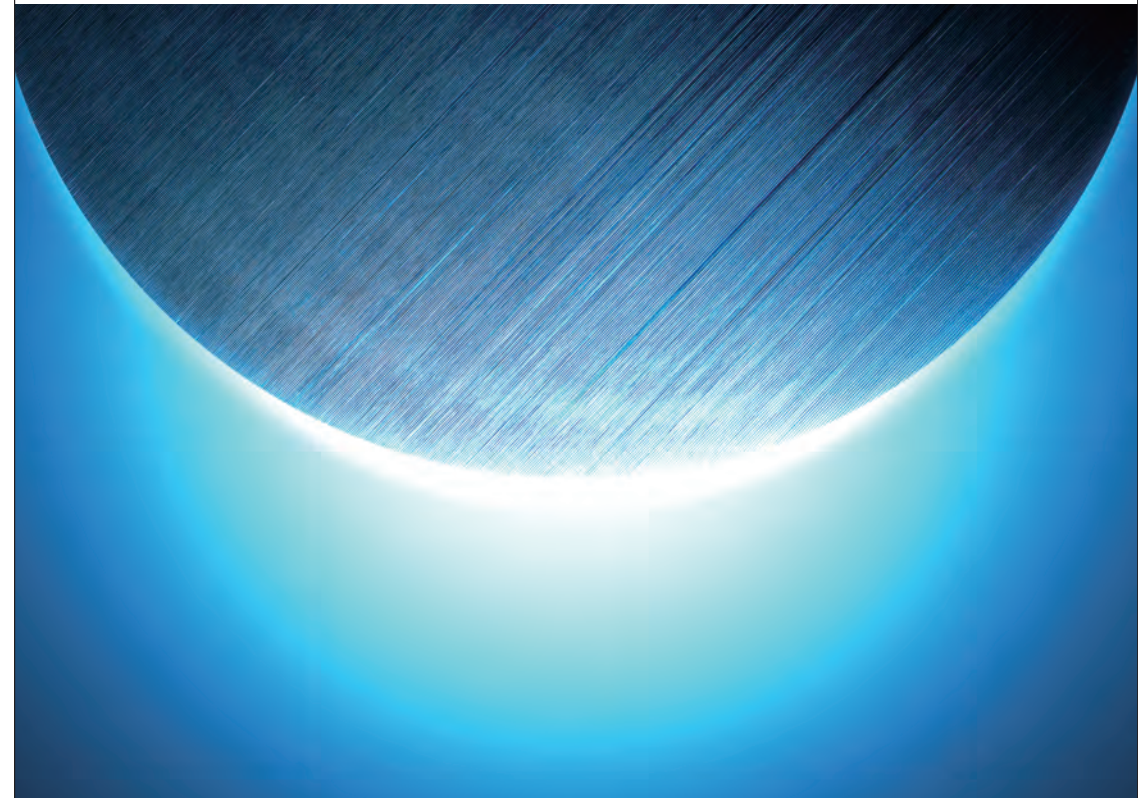
OSAKA STAINLESS

2024-2025

Osaka Stainless supports manufacturing in various industry sectors across the globe with our high-performance metals. We are conscious of honest and fair corporate practices in pursuit of the healthy growth and perseverance of our business, contribution to society, and the physical and spiritual wellbeing of our employees.

PRODUCT CATALOG

ENGLISH Edition



OSAKA STAINLESS

NICKEL ALLOYS & MORE

Your Reliable Supplier for Nickel Alloy and Stainless Steel

POINT
01

Wide Selection & No Minimum Order

14 different Nickel Alloy Grades, and 30 different Stainless Steel Grades in over 2500 sizes available.

POINT
02

Fast Response, Short Lead Time

For in-stock items, inquiries before 5pm Japan time will receive same day response. In-stock items can be shipped within one business day.

POINT
03

Precision Cutting for Max. Cost Efficiency

Our exceptionally tight cutting tolerance saves Post Processing time and cost.

OSAKA STAINLESS NEWS

OSAKA STAINLESS provides the **aerospace** industry with **high quality** materials and **confidence** ✈️


NEWS

01 Aerospace Material in Stock

Stock List	Products		Min	Max	Products		Min	Max
	17-4PH	(AMS5643)	φ10	φ200	ALLOY 625	(AMS5666)	φ6	φ330
	17-4PH H1025	(AMS5643)	φ16	φ100	A286	(AMS5732)	φ8	φ150
	ALLOY 718 ST	(AMS5662)	φ6	φ300	A286	(AMS5737)	φ10	φ90
	ALLOY 718 AG	(AMS5663)	φ8	φ300	321	(AMS5645)	φ12.7	φ203.2
	ALLOY X	(AMS5754)	φ13	φ160				

NEWS







02 AS/EN9120 certified for Aerospace

AS9120	AS9120 is a standard for the aerospace industry in which specifically designed for aerospace stockist & distributors.			
▶ Standard	AS/EN 9120:B	▶ Cert#	10000319412-MSC-ANAB	
▶ Issuing CB	DNV GL	▶ Scope	Sales, Import and Export of Steel (nickel alloy and stainless steel) for Aviation, Space and Defence Industry	
▶ Issue Date	2/24/2020	▶ Sites	Head Quarter (Other sites are under re-certification)	

CONTENTS

OSAKA STAINLESS PRODUCT CATALOG

High Nickel Alloy & Titanium	▶ ALLOY C276 (Hastelloy C276) UNS N10276	▶ ALLOY K500 (Monel K500) UNS N05500	▶ ALLOY 718 AG (Incoloy 718) UNS N07718
	▶ ALLOY B2 (Hastelloy B2) UNS N10665	▶ ALLOY 825 (Incoloy 825) UNS N08825	▶ ALLOY 800H/HT (Incoloy 800H/HT) UNS N08810 N08811
	▶ ALLOY 22 (Hastelloy C22) UNS N06022	▶ ALLOY 600 (Incoloy 600) UNS N06600	▶ ALLOY X (Hastelloy X) UNS N06002
	▶ ALLOY 20 (Carpenter 20Cb3) UNS N08020	▶ ALLOY 601 (Incoloy 601) UNS N06601	▶ TB-340 Titanium Gr.2
Stainless Steel	▶ ALLOY 200/201 (Nickel 200/201) UNS N02200 N02201	▶ ALLOY 625 (Incoloy 625) UNS N06625	
	▶ ALLOY 400 (Monel 400) UNS N04400	▶ ALLOY 718 ST (Incoloy 718) UNS N07718	
	▶ SUS304	▶ SUS403/410	▶ SUS630H1025
	▶ SUS304L	▶ SUS403QT/410QT	▶ SUS630H1075
Machinings	▶ SUS303	▶ SUS420J2	▶ SUS630H1150
	▶ SUS316	▶ SUS317L	▶ SUS420J2QT
	▶ SUS316L	▶ SUS430	▶ 17-4PH ST
	▶ SUS316Ti	▶ SUS440C	▶ 17-4PH H1025
Reference	▶ SUS310S	▶ SUS630	▶ A286 (AMS5732)
	▶ SUS321	▶ SUS630H900	▶ A286 (AMS5737) NEW
	▶ P.10 Bolt • Nut • Washer • Flange		
	▶ P.21 Processed Parts Samples		
Out Sourceable List	▶ P.25 Quality Control Facilities		
	▶ P.27 Nickel Alloy Profile		
	▶ P.29 Available Stock from OSC's local partner		

2024 UPDATE		REGULAR LENGTH	
①New Stock A286(AMS5737)(pg.19&20)	③New Inspection Facility LB3000 EXII P26	 1000mm	 3500mm
②New Sizes SUS329J4L PM(pg.17&18) SUS420J2H PM(pg.17&18) SUS630 H900 H1150(pg.19&20)		 2000mm	 4000mm
		 3000mm	 2500 - 3990mm

JIS TOLERANCE							
Size(mm)	h7	h8	h9	h10	h11	h12	h13
- 3	+0 / -0.010	+0 / -0.014	+0 / -0.025	+0 / -0.040	+0 / -0.060	+0 / -0.10	+0 / -0.14
3 - 6	+0 / -0.012	+0 / -0.018	+0 / -0.030	+0 / -0.048	+0 / -0.075	+0 / -0.12	+0 / -0.18
6 - 10	+0 / -0.015	+0 / -0.022	+0 / -0.036	+0 / -0.058	+0 / -0.090	+0 / -0.15	+0 / -0.22
10 - 18	+0 / -0.018	+0 / -0.027	+0 / -0.043	+0 / -0.070	+0 / -0.11	+0 / -0.18	+0 / -0.27
18 - 30	+0 / -0.021	+0 / -0.033	+0 / -0.052	+0 / -0.084	+0 / -0.13	+0 / -0.21	+0 / -0.33
30 - 50	+0 / -0.025	+0 / -0.039	+0 / -0.062	+0 / -0.100	+0 / -0.16	+0 / -0.25	+0 / -0.39
50 - 80	+0 / -0.030	+0 / -0.046	+0 / -0.074	+0 / -0.12	+0 / -0.19	+0 / -0.30	+0 / -0.46
80 - 120	+0 / -0.035	+0 / -0.054	+0 / -0.087	+0 / -0.14	+0 / -0.22	+0 / -0.35	+0 / -0.54

COLD BAR Tolerance	▶ ROUND BAR ... h9	▶ HEX, SQUARE, FLAT BAR ... h11~h13
	▶ CG centreless ground ... h7	

High Nickel Alloy & Titanium





















Stainless Steel

Machinings

Reference

Out Sourceable List

High Nickel Alloy Stock and Specification Outline

Alloy	Known As	Material Specification※	Round Bar	Hexagon Bar	Hex Bolt	Stud bolt	Nut Washer	Flange	Remark
			Detail : P.5-8	Detail : P.9	Detail : P.10	Detail : P.10	Detail : P.10	Detail : P.10	
									
			Min - Max(mm)		Min - Max(mm)				
 ALLOY C276	Hastelloy C276	ASTM B574 / B564 ASME SB574 / SB564 ★ NACE MR0175 (ISO15156) NACE MR0103	2 - 350	10 - 30	M6 - M16	M6 - M16	M4 - M20	10K 20A-100A	• Corrosion Test ASTM G28A
 ALLOY B2	Hastelloy B2	ASTM B335 / B564 ★ ASME SB335 / SB564 ★	12 - 250						
 ALLOY 22	Hastelloy C22	ASTM B574 / B564 ★ ASME SB574 / SB564 ★ NACE MR0175 (ISO15156) NACE MR0103	1.2 - 350	10 - 30	M6 - M16	M6 - M12	M5 - M20	10K 20A-100A	• Corrosion Test ASTM G28A
 ALLOY 20	Carpenter 20Cb3	ASTM B473 ASME SB473 NACE MR0103	10 - 250	17 - 30			M10 - M16		
 ALLOY 200 / 201	Nickel 200/201	ASTM B160 / B564 ★ ASME SB160 / SB564 ★	2 - 250	10 - 24			M5 - M16		
 ALLOY 400	Monel 400	ASTM B164 / B564 ★ ASME SB164 / SB564 ★ NACE MR0175 (ISO15156) NACE MR0103	6 - 250	17 - 24			M10 - M16		
 ALLOY K500AG	Monel K500AG	ASTM B865 QQ-N-286 NACE MR0175 (ISO15156) NACE MR0103	10 - 280						• Direct Aged • Charpy Test ASTM A370
 ALLOY 600	Inconel 600	ASTM B166 / B564 ★ ASME SB166 / SB564 ★ NACE MR0103	3 - 250	10 - 24			M5 - M16		
 ALLOY 601	Inconel 601	ASTM B166 ASME SB166	3 - 250	10 - 24			M5 - M16		
 ALLOY 625	Inconel 625	ASTM B446 / B564 ★ ASME SB446 / SB564 ★ NACE MR0175 (ISO15156) NACE MR0103 AMS 5666 GE S-400 GE S-1000	3 - 330	17 - 24			M10 - M16		• GRADE1 • Corrosion Test ASTM G28A
 ALLOY 718 ST	Inconel 718	ASTM B637 ASME SB637 AMS 5662 GE S-400 GE C50TF13 * GE B50T69 * GE B50TF15 A&D * GE S-1000	6 - 300						• VIM / VAR
 ALLOY 718 AG	Inconel 718	ASTM B637 ASME SB637 AMS 5663 GE S-400 GE C50TF13 * GE B50T69 * GE B50TF15 A&D * GE S-1000	8 - 300						• VIM / VAR
 ALLOY 800H / HT	Incoloy 800H/HT	ASTM B408 / B564 ★ ASME SB408 / SB564 ★	10 - 250	17 - 24			M10 - M16		
 ALLOY X	Hastelloy X	ASTM B572 ASME SB572 AMS 5754 GE S400 GE S-1000	13 - 160						

◆ Inconel, Incoloy, and Monel are registered trademarks of Special Metal Corporation.
◆ Carpenter is a registered trademark of Carpenter Technology Corporation.
◆ Hastelloy is a registered trademark of Haynes International, Inc.

* - Chemistry Only

★ - Apply to forged bars only

OSC conducts PMI to all in-coming and out-going process for Nickel Alloy products.

Out Source

Plate	Pipe / Tube	Welding Rod / Wire
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○ ... Sourceable in Japan
△ ... Sourceable from Overseas

High Nickel Alloy Round Bar

Grade	UNS N10276	UNS N10665	UNS N06022	UNS N08020	N02200/N02201	UNS N04400	UNS N05500
Size (mm)	ALLOY C-276	ALLOY B-2	ALLOY 22	ALLOY 20	ALLOY 200 / 201	ALLOY 400	ALLOY K500AG
	Density ▶ 8.89	9.24	8.69	8.08	8.89	8.83	8.47
2	◐		◐		◐		
3	◐		◐		◐		
4	◐		◐		◐		
5	◐		◐		◐		
5.3	◐						
6	▲		▲		▲	▲	
7.13	▲						
8	▲		▲		▲	▲	
8.95	▲						
10	▲		▲	▲	▲	●	★
12	★		▲	▲	▲	●	★
13	★		★	▲	▲	●	★
16	★	★	★	●	★	●	★
18			★		★		
19	★			●		●	
20	★	★	★	●	★	●	★
22	★	★	★	●	★	●	★
24	★						
25	★	★	★	●	★	●	★
28	★	★	★	●	★	●	★
30	★	★	★	●	★	●	★
32	★		★	●	★	●	★
35	★	★	★	●	★	●	★
36	★						
38	★		★	●	★	●	★
40	★	★	★	●	★	●	★
42	★		★	●	★	●	★
45	★	★	★	●	★	●	★
50	★	★	★	●	★	●	★
55	★	★	★	●	★	●	★
60	★	★	★	●	★	●	★
65	★	★	★	●	★	●	★








●◐▲■●★ ... check Pg.2 for meaning

◐ φ13mm & Smaller - h9 tolerance *Exception for old stock








Grade	UNS N06600	UNS N06601	UNS N06625	UNS N07718	UNS N07718	N08810/N08811	UNS N06002
Size (mm)	ALLOY 600	ALLOY 601	ALLOY 625	ALLOY 718 ST	ALLOY 718 AG	ALLOY 800H / HT	ALLOY X
	Density ▶ 8.42	8.11	8.44	8.19	8.19	7.95	8.3
2							
3	◐	◐	◐				
4	◐	◐	◐				
5	◐	◐	◐				
5.3							
6	▲	▲	▲	▲			
7.13							
8	▲	▲	▲	★	★		
8.95							
10	▲	▲	▲	★	★	★	
12	▲	▲	▲	★	★	★	
13	▲	▲	★	★	★	★ 12.7	★
16	●	●	★	★	★	●	★
18	●	●	★	★			★
19							
20	●	●	★	★	★	●	★
22	●	●	★	★	★	●	
24							
25	●	●	★	★	★	●	★
28	●	●	★	★	★	●	
30	●	●	★	★	★	●	★
32	●	●	★	★	★	●	
35	●	●	★	★	★	●	★
36							
38	●	●	★	★	★	●	
40	●	●	★	★	★	●	★
42	●	●	★	★	★	●	
45	●	●	★	★	★	●	★
50	●	●	★	★	★	●	★
55	●	●	★	★	★	●	
60	●	●	★	★	★	●	★
65	●	●	★	★	★	●	

◐ φ13mm & Smaller - h9 tolerance *Exception for old stock

High Nickel Alloy Round Bar

Grade	UNS N10276	UNS N10665	UNS N06022	UNS N08020	N02200/N02201	UNS N04400	UNS N05500
Size (mm)	 ALLOY C-276	 ALLOY B-2	 ALLOY 22	 ALLOY 20	 ALLOY 200 / 201	 ALLOY 400	 ALLOY K500AG
	Density ▶ 8.89	9.24	8.69	8.08	8.89	8.83	8.47
70	★	★	★	●	★	●	★
75	★		★	●	★	●	★
80	★	★	★	●	★	●	★
85	★		★	●	★	●	★
90	★	★	★	●	★	●	★
95	★		★	●	★	●	
100	★	★	★	★	★	★	★
105	★		★				
110	★	★	★	★	★	★	★
115	★		★				
120	★	★	★	★	★	★	★
125	★		★				
130	★	★ 133	★	★	★	★	★
135	★		★				
140	★		★	★	★	★	★
145	★		★				
150	★	★	★	★	★	★	★
155	★		★				
160	★	★	★	★	★	★	★
165	★		★				
170	★		★	★			
180	★	★	★	★	★	★	★
190	★		★	★			
200	★	★	★	★	★	★	★
210	★		★		★	★	★
220	★		★				
230	★	★	★	★	★	★	★
250	★	★	★	★	★	★	★
280	★		★				★
300	★		★				
330	★		★				
350	★		★				

●◐▲■●★ ... check Pg.2 for meaning

Grade	UNS N06600	UNS N06601	UNS N06625	UNS N07718	UNS N07718	N08810/N08811	UNS N06002
Size (mm)	 ALLOY 600	 ALLOY 601	 ALLOY 625	 ALLOY 718 ST	 ALLOY 718 AG	 ALLOY 800H / HT	 ALLOY X
	Density ▶ 8.42	8.11	8.44	8.19	8.19	7.95	8.3
70	●	●	★	★	★	●	★
75	●	●	★	★	★	●	
80	●	●	★	★	★	●	★
85	●	●	★	★	★	●	
90	●	●	★	★	★	●	★
95	●	●	★	★	★	●	
100	★	★	★	★	★ 101.6	★	★
105				★			
110	★	★	★	★	★	★	
115							
120	★	★	★	★	★	★	
125							
130	★	★	★	★	★	★	★
135							
140	★	★	★	★	★	★	
145							
150	★	★	★	★	★	★	
160	★	★	★	★	★	★	★
165							
170		★		★	★		
180	★	★	★	★	★	★	
190			★	★			
200	★	★	★	★	★	★	
210				★	★		
220							
230	★	★	★	★	★	★	
250	★	★	★	★	★	★	
280			★	★	★		
300			★	★	★		
330			★				

High Nickel Alloy Hexagon Bar

Grade	UNS N10276	UNS N06022	UNS N08020	UNS N02201	UNS N04400	UNS N06600	UNS N06601	UNS N06625	UNS N08811
Size (mm)	ALLOY C-276	ALLOY 22	ALLOY 20	ALLOY 201	ALLOY 400	ALLOY 600	ALLOY 601	ALLOY 625	ALLOY 800HT
	Density ▶ 8.89	8.69	8.08	8.89	8.83	8.42	8.11	8.44	7.95
10	★	★		★		★	★		
13	★	★		★		★	★		
17	★	★	★	★	★	★	★	★	★
19	★	★	★	★	★	★	★	★	★
22									
24	★	★	★	★	★	★	★	★	★
27									
30	★	★	★						
32									
36									

● ▲ ▲ ● ★ ... check Pg.2 for meaning ※Drawn, (Solution) Annealed, Pickled [Except 201 is Cold Finished]

Titanium Gr.2

	Round Bar				Hex Bar	
Density	4.51				4.51	
size (mm)	3	9	18	40	10	32
	4	10	18.3	45	13	36
	5	10.8	20	50	17	41
	5.3	12	22		19	46
	6	13	24		21	
	7	14	25		22	
	7.13	14.6	28		24	
	8	15	30		27	
	8.95	16	35		30	

OSC conducts PMI to all in-coming and out-going process for Nickel Alloy products.



Alloy C276 Alloy 22 SUS329J4L Hex Bolt

ALLOY C-276																				
Size	length (mm)	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
M6	Half Thread				●	●	●													
	Full Thread	●	●	●																
M8	Half Thread	○	○		○	●	○	○	○	○										
	Full Thread	○	○	●	○		○		○	○										
M10	Half Thread	○	○	○		●		○			○	○	○	○	○	○	○	○	○	○
	Full Thread	○	○	○	●	●	●	●	○	●	○	○	○	○	○	○	○	○	○	○
M12	Half Thread	○	○	○		○	○	○	○	○	○	○	○	○	○	○				
	Full Thread	○	○	○	●	○	●	○	○	○	○	○	○	○	○	○				
M16	Half Thread	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Full Thread	○	○	○	○	○	○	○	○	○	●	○	○	○	○	○	○	○	○	○

ALLOY 22																				
Size	length (mm)	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
M6	Half Thread				●	●														
	Full Thread	●	●	●																
M8	Half Thread	○	○		○	●	○	○	○	○										
	Full Thread	○	○	●	○		○	○	○	○										
M10	Half Thread	○	○	○	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○
	Full Thread	○	○	○	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○
M12	Half Thread	○	○	○		○	●	○	○	○	○	○	○	○	○	○				
	Full Thread	○	○	○	●	○	●	○	○	○	○	○	○	○	○	○				
M16	Half Thread	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Full Thread	○	○	○	○	○	○	○	○	○	●	○	○	○	○	○	○	○	○	○

SUS329J4L																					
Size		length (mm)	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
M16	Half Thread								●		●		●								
	Full Thread								○		○		○								
M20	Half Thread								●		●		●								
	Full Thread								○		○		○								
M24	Half Thread								●		●		●		●						
	Full Thread								○		○		○		○						

Specification : JIS B1180, Semi-Finished Type
M6&M8 are machined M10, M12, M16 are Hot Forged + Solution Treated ● Stock ○ Short time production

Alloy C276 / Alloy 22 Studbolt

length : 1000mm					
size ▶ M6	M8	M10	M12	M16	
●	●	●	●	●	

ALLOY C-276 ALLOY 22

Alloy C276-C22 Flange

	20A	25A	40A	50A	65A	80A	100A
C-276 JIS10K	●	●	●	●	●	●	●
C-22 JIS10K	●	●	●	●	●	●	●

Type : BL-FF / SOP-FF

Please enquire for the sizes not listed

Nickel Alloy & Duplex Stainless Nut & Washer

Grade	UNS N10276	UNS N06022	UNS N08020	UNS N02201	UNS N04400	UNS N06600	UNS N06601	UNS N06625	UNS N08811		
Size (mm)	ALLOY C-276	ALLOY 22	ALLOY 20	ALLOY 201	ALLOY 400	ALLOY 600	ALLOY 601	ALLOY 625	ALLOY 800HT	SUS329 J4L	S31803
	Nut Washer	Spring Washer	Nut Washer	Nut Washer	Nut Washer	Nut Washer	Nut Washer	Nut Washer	Nut Washer	Nut Washer	Nut Washer
M4	●										
M5	●	●		●						●	
M6	●	●		●						●	
M8	●	●		●						●	●
M10	●	●	●	●	●	●	●	●	●	●	●
M12	●	●	●	●	●	●	●	●	●	●	●
M16	●	●	●	●	●	●	●	●	●	●	●
M20	●	●	●	●	●	●	●	●	●	●	●
M24											●

Specification : Nut, JIS B1181 Class 1 Washer, JIS B1256 Normal Series Grade.A
※Exception : M12 Washer, thickness 2mm

★SAF2507 is a registered trademark of Sandvik AB ★ZERON100 is a registered trademark of Rolled Alloys, Inc.

★254SMO is a registered trademark of Outokumpu OY ★Nitronic50 is a registered trademark of AK Steel Co.

Stainless Steel Cold Round Bar Tolerance : h9

Grade	SUS 304	SUS 304L	SUS 303	SUS 316	SUS 316L	SUS 310S	SUS 317L	SUS 321	SUS 403	SUS 420J2	SUS 430	SUS 440C	SUS 630
size (mm)	7.93	7.93	7.98	7.98	7.98	7.98	7.8	7.75	7.75	7.75	7.78	7.78	
2	○			●	●								
2.5	○												
3	○		▲	●	●	●				●	●	3.2	●
3.5	○			●	●								
4	○		▲	●	●	●			●	●	●	4.2	●
4.4	○			●	●	●							
5	○		▲	●	●	●			●	●	●	5.2	●
5.3	○			●	●	●							
5.5	○			●	●								
6	○	●	▲	●	●	●		●	●	●	●	6.2	●
6.35	○												
7	○	●	▲	●	●	●			●	●	●	7.2	●
7.1	○			●	●	●							
8	○	●	▲	●	●	●	●	●	●	●	●	8.2	●
8.4	○			●	●								
8.95	○			●	●	●			●				
9	○		▲	●	●					●	●	9.2	●
9.52	○												
10	○	●	▲	●	●	●	●	●	●	●	●	10.2	●
10.8	○			●	●	●			●				
11	○		▲						●		●		
11.3	○			●	●								
12	○	●	▲	●	●	●	●		●	●	●	12.2	●
12.7	○			●	●	●							
13	○	●	▲	●	●	●	●		●	●	●	13.2	●
14	○		▲	●	●	●			●	●	●	14.2	
14.3	○			●	●								
14.6	○			●	●	●			●				
15	○		▲	●	●				●		●		
15.87	○												
16	○		▲	●	●				●	●	●		
16.3	○			●	●								
17	○		▲						●		●		

●▲■●★ ... check Pg.2 for meaning

Grade	SUS 304	SUS 303	SUS 316	SUS 316L	SUS 310S	SUS 321	SUS 403	SUS 420J2	SUS 430	SUS 440C
size (mm)	7.93	7.98	7.98	7.98	7.8	7.75	7.75	7.75	7.78	
17.3	○		●	●						
18	○	▲	●	●			●		●	
18.3	○		●	●						
19	○	▲	●	●			●	●	●	
20	○	▲	●	●			●	●	●	
20.3	○		●	●						
21	○	▲								
22	○	▲	●	●			●	●		
23	○	▲								
23.3										
24	○	▲	●	●			●	●		
25	○	▲	●	●						
26	○	▲								
27	○									
27.62	○									
28	○	▲	●	●						
30	○	▲	●	●						
32	○									
33	○									
33.3	○									
34	○									
35	○									
36	○									
38	○									
40	○									
42	○									
45	○									
50	○									

Austenitec Stainless Steel Smooth Turned Round Bar








Grade	SUS 304	SUS 304L	SUS 303	SUS 316	SUS 316L	SUS 316Ti	SUS 310S	SUS 317L	SUS 321	321/321H (AMS 5645)	XM19	S31254
size (mm)	Density ▶ 7.93	7.93	7.93	7.98	7.98	7.98	7.98	7.98	7.8	7.8	7.88	8.0
10									★ 9.52			★ SD
12												★ SD
13									★ 12.7		★	
16	○	●		●		★	●	●	●	★ 15.87	★	★
18	○	●					●					
19	○	●		●			●	●	●	★ 19.05		
20	○	●	●	●	●	★	●	●	●	★ 20.64	★	★
22	○	●	●	●	●	★	●	●	●	★ 22.22	★	★
24	○	●	●	●	●		●	●	●			
25	○	●	●	●	●	★	●	●	●	★ 25.4	★	★
26	○	●										
27	○	●		●	●							
28	○	●	●	●	●	★	●	●	●	★ NEW 28.57	★	★
30	○	●	●	●	●	★	●	●	●		★	★
32	○	●	●	●	●		●	●	●	★ 31.75	★	★
33	○	●		●	●							
34	○	●							★ NEW 34.92			
35	○	●	●	●	●	★	●				★	★
36	○	●	●	●	●		●	●	●			
38	○	●	●	●	●		●	●	●		★	★
40	○	●	●	●	●	★	●	●	●		★	★
42	○	●	●	●	●		●	●	●	★ 41.27	★	★
44	○	●										
45	○	●	●	●	●	★	●	●	●	★ NEW 44.45	★	★
46	○	●		●	●							

● ▲ ■ ● ★ ... check Pg.2 for meaning SD.....PICKLED








Grade	SUS 304	SUS 304L	SUS 303	SUS 316	SUS 316L	SUS 316Ti	SUS 310S	SUS 317L	SUS 321	321/321H (AMS 5645)	XM19	S31254
size (mm)	Density ▶ 7.93	7.93	7.93	7.98	7.98	7.98	7.98	7.98	7.8	7.8	7.88	8.0
48	○	●	●	●	●		●					
50	○	●	●	●	●	★	●	●	●	★ 50.8	★	★
55	○	●	●	●	●	★	●	●	●	★ NEW 57.15	★	
60	○	●	●	●	●	★	●	●	●		★	★
65	○	●	●	●	●		●		●	★ 63.5	★	
70	○	●	●	●	●	★	●		●	★ NEW 69.85	★	★
75	△	△	△	△	△		●		△	★ 76.2	★	
80	△	△	△	△	△	★	●		△	★ 82.55	★	★
85	△	△	△	△	△		●		△			
90	△	△	△	△	△	★	●		△	★ NEW 88.9	★	★
95	△	△	△	△	△		●					
100	△	△	△	△	△	★	★		△	★ NEW 101.6	★	★
110	☆	☆		☆	☆		☆				★	★
120	☆	☆		☆	☆	★	☆				★	★
130	☆	☆		☆	☆		☆		★ NEW 127		★	
140	☆	☆		☆	☆		☆				★	
150	☆	☆		☆	☆	★	☆		★ NEW 152.4		★	★
160	☆	☆		☆	☆				★ NEW 165.1			
170	☆	☆		☆	☆				★ NEW 177.8			
180	☆	☆		☆	☆	★						
190	☆	☆		☆	☆				★ NEW 190.5			
200	☆	☆		☆	☆	★			★ NEW 203.2			
230	☆	☆		☆	☆							
250	☆	☆		☆	☆							

Ferritic•Martensitic•Duplex Stainless Steel

Smooth Turned Round Bar

Grade							
	SUS 403 (H)	SUS 420J2 (H)	SUS 430	S31803 S32205	SUS 329J4L	S32750	S32760
size (mm)	Density ▶ 7.75	7.75	7.75	7.8	7.78	7.8	7.8
6					h9		
8					h9		
10				h9	h9	h9	
12				h9	h9	h9	☆ 12.7
13				h9		h9	
16	●	●	●	★	●	★	☆ 15.88
18	●	●	●		▲		
19							☆
20	●	●	●	★	●	★	
22	●	●	●	★	●	★	☆ 22.22
24	●	●	●	★	●	★	
25	●	●	●	★	●	★	☆ 25.4
28	●	●	●	★	●		☆ 28.57
30	●	●	●	★	●	★	☆
32	●	●	●	★	●	★	☆ 31.75
35	●	●	●	★	●	★	☆
36	●	●	●	★	●	★	
38	●	●	●	★	●	★	☆ 38.1
40	●	●	●	★	●	★	☆
42	●	●		★	●	★	
45	●	●	●	★	●	★	☆ 44.45
48	●	●	●		●		
50	●	●	●	★	●	★	☆
55	●	●	●	★	●	★	☆
60	●	●	●	★	●	★	☆

● ▲ ■ ● ★ ... check Pg.2 for meaning

Grade							
	SUS 403 (H)	SUS 420J2 (H)	SUS 430	S31803 S32205	SUS 329J4L	S32750	S32760
size (mm)	Density ▶ 7.75	7.75	7.75	7.8	7.78	7.8	7.8
65	●	●	●	★	●	★	☆
70	●	●	●	★	●	★	☆
75	●	●	●	★	●	★	☆
80	●	●	●	★	●	★	☆
85	●	●	●	★	●	★	
90	●	●	●	★	●	★	☆
95		●	●	★	●	★	
100	●	●	●	★	●	★	☆ 101.6
110	★	★	★	★	★	★	☆
120	★	★	★	★	★	★	☆ 120.65
130	★	★	★	★	★	★	☆
140	★	★	★	★	★	★	
150	★	★	★	★	★	★	☆
160		★	★	★	★	★	☆
170		★	★	★	★		☆
180		★	★	★	★	★	☆
190		★	★	★	★		
200		★	★	★	★	★	☆ 203.2
210		★ NEW		★	★		
220		★ NEW			★		
230		★ NEW		★	★	★	☆
250		★ NEW		★	★	★	☆
280		★ NEW		★	★ NEW	★	
300		★ NEW		★	★ NEW	★	
330				★			
350				★			

Stainless Steel (Participation Hardening)

Grade	size (mm)	SUS 630	SUS 630H900	SUS 630H1025	SUS 630H1075	SUS 630H1150	17-4PH	17-4PH H1025	A286 (AMS 5732)	A286 (AMS 5737)
		Density ▶ 7.78	7.78	7.78	7.78	7.78	7.78	7.78	7.94	7.94
8									★	
10			● h9	● h9	● h9	● h9	● h9		★	★ NEW
12			● h9	● h9	● h9	● h9	● h9			
13			● h9	● h9	● h9	● h9	● h9		★	★ NEW
14		●				●				
16		●	●	●	●	●	★	★	★	★ NEW
19		●								
20		●	●	●	●	●	★	★	★	★ NEW
22		●	●	●	●	●	★	★	★	★ NEW
24		●	●			●				
25		●	●	●	●	●	★	★	★	★ NEW
26		●								
28		●	●	●	●	●			★	
30		●	●	●	●	●	★	★	★	★ NEW
32		●	●	●	●	●			★ NEW	
35							★	★	★	★ NEW
36		●	●	●	●	●				
38		●	●	●	●	●			★ NEW	
40		●	●	●	●	●	★	★	★	★ NEW
42		●	●	●	●	●			★ NEW	
45		●	●	●	●	●	★	★	★	★ NEW
48		●	●	●	●	●				
50		●	●	●	●	●	★	★	★	★ NEW
55		●	●	●	●	●	★	★	★	★ NEW

●◐◑◒◓◔◕◖◗◘◙◚◛◜◝◞◟◠◡◢◣◤◥◦◧◨◩◪◫◬◭◮◯◰◱◲◳◴◵◶◷◸◹◺◻◼◽◾◿◿ ... check Pg.2 for meaning

Grade	size (mm)	SUS 630	SUS 630H900	SUS 630H1025	SUS 630H1075	SUS 630H1150	17-4PH	17-4PH H1025	A286 (660)	A286 (AMS 5737)
		Density ▶ 7.78	7.78	7.78	7.78	7.78	7.78	7.78	7.94	7.94
60		●	●	●	●	●	★	★	★	★ NEW
65		●	●	●	●	●	★	★	★	
70		●	●	●	●	●	★	★	★	★ NEW
75		●	●	●	●	●			★	
80		●	●	●	●	●	★	★	★	★ NEW
85		●	●	●	●	●			★	
90		●	●	●	●	●	★	★	★	★ NEW
95		●	●	●	●	●			★	
100		●	●	●	●	★	★	★	★	
110		★	★	★	★	★				
120		★	★	★	★	★	★			
130		★	★	★	★	★	★ 135		★	
140		★	★	★	★	★				
150		★	★	★	★	★	★		★	
160		★	★			★	★			
170		★	★			★				
180		★	★			★	★			
190		★	★			★				
200		★	★			★	★			
210			★ NEW			★ NEW				
220			★ NEW			★ NEW				
230			★ NEW			★ NEW				
250			★ NEW			★ NEW				

Stainless Steel Hexagon Bar

















































Grade	size (mm)	SUS 304	SUS 304L	SUS 303	SUS 316	SUS 316L	SUS 317L	SUS 310S
		Density ▶ 7.93	7.93	7.93	7.98	7.98	7.98	7.98
5.5				●				
6				●				
7				●				
8		△		▲	▲	▲		
10		△		▲	▲	▲		▲
11				▲				
12		△		▲	▲	▲		
13		△		▲	▲	▲		▲
14		△	★	▲	▲	▲		
17		△	★	▲	★	★	★	★
19		△	★	▲	★	★	★	★
21		△	★	▲	★	★		★
22		☆	★	★	★	★		★
23		☆			★	★		
24		☆	★	★	★	★	★	★
26		☆	★	★	★	★		★
27		☆	★	★	★	★		★
29		☆	★		★	★		
30		☆	★	★	★	★	★	★
32		☆	★	★	★	★		★
35		☆	★		★	★		
36		☆	★	★	★	★		★
38		☆	★		★	★		
41		☆	★	★	★	★		★
46		☆	★	★	★	★		★
50		☆	★		★	★		
55		☆	★		★	★		
60		☆	★		★	★		
65		☆	★		★	★		
70		☆	★		★	★		
75		☆			★			
80		☆			★			

..... A/F60mm & Larger - Hot Finish

Grade	size (mm)	SUS 321	SUS 403	SUS 420J2	SUS 630	S31803 S32205	SUS 329J4L
		Density ▶ 7.8	7.75	7.75	7.78	7.8	7.78
5.5							
6							
7							
8				▲			
10			▲	▲	★		
11							
12							
13			▲	▲	★		★
14			▲	▲			
17		★	★	★	★	★	★
19		★	★	★	★	★	★
21		★	★	★			
22		★	★	★	★		★
23			★				
24		★	★	★	★	★	★
26		★	★	★			
27		★	★	★	★		
29			★				
30		★	★	★	★	★	★
32		★	★	★	★	★	★
35			★	★			
36		★	★	★	★	★	★
38			★				
41		★	★	★	★		
46		★	★	★	★	★	
50			★			★	
55			★			★	
60			★				
65			★				

● ◐ ▲ ■ ● ★ ... check Pg.2 for meaning

Stainless Steel Knurled Round Bar


Grade				
size (mm)	SUS304 Check	SUS304 Stripe	SUS303 Check	SUS303 Stripe
6				
8				
10				
12				
16				
18				
19				
20				
22				
24				
30				

※ all 2000L

Pitch
 ▶ Check 1.11 ▶ Module 0.33
 ▶ Stripe 1.05

◆▲■●★ ... check Pg.2 for meaning

Stainless Steel Cold Square Bar

Grade			
size (mm)	SUS304 SQ.Bar		
	Density ▶ 7.93		
5		20	○
6		22	
7		25	○
8		26	
9		30	
10	○	32	
12	○	38	
13		40	
14	○	45	
15	○	50	
16	○		
17			
19	○		

INFORMATION

CUTTING

Various IoT-equipped cutting machines are used to achieve highly efficient cutting and quick delivery !

STRENGTH

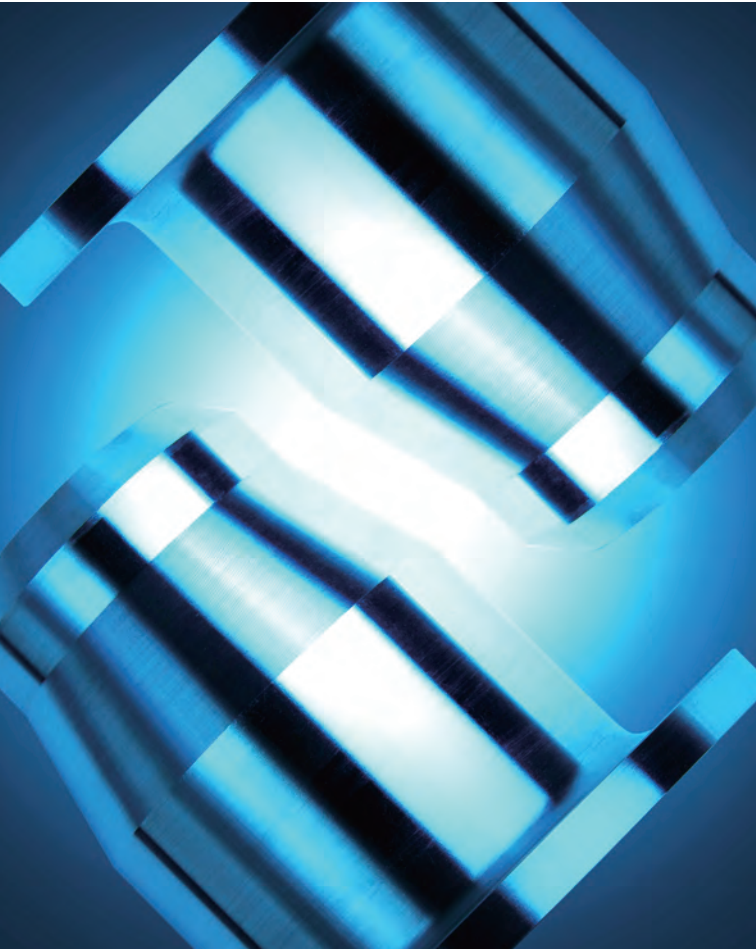
- ▶ No MOQ
- ▶ Quick Delivery
 - 1day ARO for small lot orders
- ▶ Precision Cutting
 - Length Tolerance : -0, +1
 - Cut Length : 7mm ~

Type	Maker	Model	Qty
Bandsaw	AMADA	PCSAW530-AX	1
	AMADA	PCSAW430-AX	4
	DAITO	UGAII 330	9
	AMADA	PCSAW330	1
	AMADA	HFA300	4
	DAITO	UGA260	4
Circular Saw	TSUNE	TK80GL	2
	TSUNE	TK70GL	3
Total Machines			28



MEMO

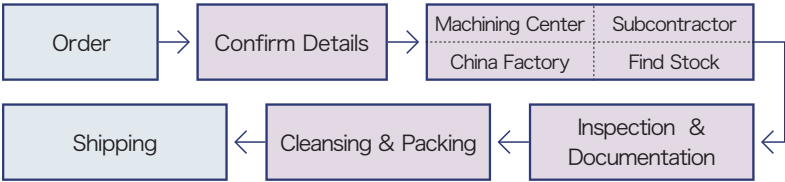
MACHINE PROCESSING



High Quality Products Made with Advanced Technology

Our Precision Processing Group accepts requests for all kinds of metal processings that includes machining (NC and MC multi-purpose lathe), hot and warm forging, cold forging, laser processing, ring forging etc in a wide range of material grades. In order to manufacture products to your specifications, OSC equipped with a variety of advanced inspection machines and precision measuring instruments.

► Production Flow



► In-house Machining Facilities

NC Lathe	OKUMA	Genos L250H	x2	φ200mm x 300mm
	MIYANO	LX-01	x1	φ150mm x 300mm
	OKUMA	LB3000 EXII NEW	x1	φ450mm x 750mm
	TAKAMATSU	X-150	x1	φ290mm x 300mm
Bar feeder	CITIZEN	BNA-42SY5	x1	φ42mm x 100mm
	MIYANO	BND-34	x1	φ30mm x 200mm
	OKUMA	LB-9	x1	φ35mm x 200mm
Bench Lathe			x 2	



► Alloy C22 Centrifuge Machine Component



► Nickel Alloy
& Stainless
Various
Component



► Semi-Conductor,
Aerospace,
Plant,
Stocker System
Components



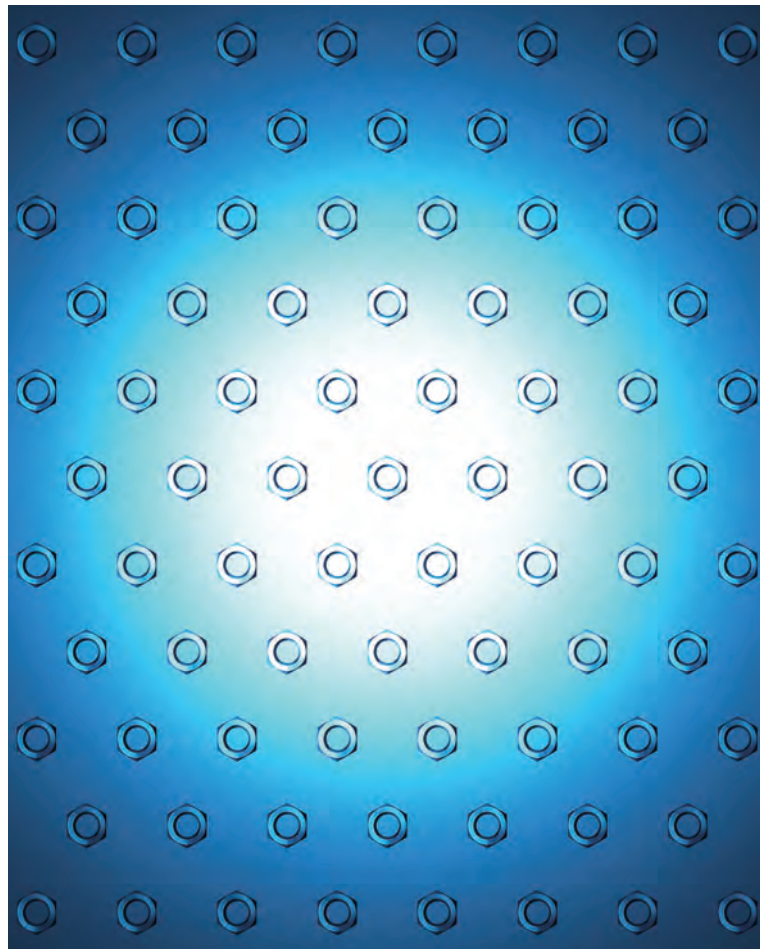
► Nickel Alloy
& Stainless
Various
Component



► Semi-Conductor,
Aerospace,
Plant,
Stocker System
Components



QUALITY CONTROL



Advanced High-Quality Control Equipment

Facilities to meet your various quality request.

Our laboratory equipped with various types of high-tech quality control equipment to meet your demand for precision parts, and metallurgical needs.

► CNC Coordinate Measuring Machines

Mitutoyo Crysta-Apex C574

Measurement allows us more reliable dimensional inspection for severe requirement for critical applications.

Max. Measurement Dimension
500mm(W) x 700mm(L) x 400mm(H)
Measuring Tolerance:
1/1000mm



► Digital Microscope

KEYENCE VHX-2000

Magnification
VH-Z20R x20 upto x 200
VH-Z100UW x100 upto x 1000



► Handheld Alloy Analyzer

Niton: XRF Analyzer x 6
Hitachi Hi-Tech: Laser Analyzer x 1

OSC equip 5 Mobile XRF Analyzer for our dispatch section.
100% PMI before shipment is our standard procedure for international shipment.



► Image Measurement System

KEYENCE IM-6000

A small daily inspections like the inner diameter, the pitch, and the angle, etc. as well as a complex part on the drawing, High-precision inspection in 99 points can be done at a time only by putting the finished product on the measurement area.
Measuring Tolerance:
5/1000mm



► Combination Surftest/ Contracer Unit

Mitutoyo FTA-H8D3000-D

FTA-H8D3000 series is a surface roughness/contour combination measuring machine that functions as a Surftest and a Contracer just by replacing the detecting unit.



► Laser Marker

OMRON MX-Z2050

High Speed, High Quality and clean marking.

Marking Area:
160mm x 160mm



► Automatic Ultrasonic Cleanser

Alex AWM-4US3TR

Ultrasonic Cleansing using RO filtered "PURE WATER", and Surfactant will finish the product in Super Clean Condition.



► Other Measuring Equipment

Profile Projector
Straightness Measuring Instrument
Rockwell Hardness Tester
Portable Hardness Tester
Radiation Dosimeter / Gauss Meter
Various type of caliper and gauge

High Nickel Alloy Stock Profile

Alloy **C276**

UNS N10276

Specification ▶ ASTM B574
ASME SB574
NACE MR0175
NACE MR0103

Density ▶ 8.89

Has outstanding durability under reductive and oxidative environment. Has good corrosion resistance at weld heated area, and also shows outstanding resistance to pitting and stress corrosion.

Major Chemical Composition (%)	Ni	Cr	Mo	Cu	Fe
	55.0	16.0	16.0	-	6.0
	etc W 4.0				

Typical Mechanical Property (RT)		Tensile Strength (MPa)	0.2% Yield Strength (MPa)	Elongation (%)	Hardness (HB)
	ST	794	402	60	195

Alloy **B2**

UNS N10665

Specification ▶ ASTM B335
ASME SB335

Density ▶ 9.24

Has outstanding corrosion resistance to non-oxidative acids, especially to hydrochloric acid because it contains large amount of Mo.

Major Chemical Composition (%)	Ni	Cr	Mo	Cu	Fe
	69.0	-	28.0	-	1.0
	etc C0.01 Si 0.05				

Typical Mechanical Property (RT)		Tensile Strength (MPa)	0.2% Yield Strength (MPa)	Elongation (%)	Hardness (HB)
	ST	892	411	60	185

Alloy **22**

UNS N06022

Specification ▶ ASTM B574
ASME SB574
NACE MR0175
NACE MR0103

Density ▶ 8.69

Ni-Cr-Mo alloy containing W(ltungsten), and has outstanding resistance to a wide range of corrosion in both reductive and oxidative environments.

Major Chemical Composition (%)	Ni	Cr	Mo	Cu	Fe
	57.0	20.5	14.2	-	2.3
	etc W3.2 V0.25 C0.01				

Typical Mechanical Property (RT)		Tensile Strength (MPa)	0.2% Yield Strength (MPa)	Elongation (%)	Hardness (HB)
	ST	794	402	57	197

Alloy **20**

UNS N08020

Specification ▶ ASTM B473
ASME SB473
NACE MR0175

Density ▶ 8.08

Shows outstanding corrosion resistance to reductive acids, especially to sulfuric acid and outstanding mechanical properties, and is easily processable.

Major Chemical Composition (%)	Ni	Cr	Mo	Cu	Fe
	35.0	20.0	2.5	3.5	37.0
	etc Nb+Ta1.0				

Typical Mechanical Property (RT)		Tensile Strength (MPa)	0.2% Yield Strength (MPa)	Elongation (%)	Hardness (HB)
	An	617	274	50	184

Alloy **200/201**

UNS N02200 / 02201

Specification ▶ ASTM B160
ASME SB160

Density ▶ 8.89

Unalloyed wrought Ni having good mechanical properties, outstanding corrosion resistance, and useful thermal and electrical conductivities. Suitable for use at temperature of 315C or higher, compared to Alloy 200.

Major Chemical Composition (%)	Ni	Cr	Mo	Cu	Fe
	99.5	-	-	-	-
	etc C0.01				

Typical Mechanical Property (RT)		Tensile Strength (MPa)	0.2% Yield Strength (MPa)	Elongation (%)	Hardness (HB)
	H.W	372	117	50	90
	C.W	539	441	20	160
	An	392	117	50	90

Alloy **400**

UNS N04400

Specification ▶ ASTM B164
ASME SB164
NACE MR0175
NACE MR0103

Density ▶ 8.83

Ni-Cu Alloy with good weldability and good workability, and outstanding corrosion resistance in a wide range of marine and chemical environments.

Major Chemical Composition (%)	Ni	Cr	Mo	Cu	Fe
	66.5	-	-	31.5	1.2
	etc -				

Typical Mechanical Property (RT)		Tensile Strength (MPa)	0.2% Yield Strength (MPa)	Elongation (%)	Hardness (HB)
	H.W	637	490	45	190
	C.W/DC	686	539	30	110
	An	559	255	48	135

Alloy **K500**

UNS N05500

Specification ▶ ASTM B865
NACE MR0175
NACE MR0103
QQ-N-286

Density ▶ 8.47

Its basic composition is similar to that of Alloy 400 but with age-hardening properties imparted by alloying additions of Al and Ti.

Major Chemical Composition (%)	Ni	Cr	Mo	Cu	Fe
	66.5	-	-	29.5	1.0
	etc Al 2.7 Ti 0.6				

Typical Mechanical Property (RT)		Tensile Strength (MPa)	0.2% Yield Strength (MPa)	Elongation (%)	Hardness (HB)
	H.W/AG	1078	902	25	305
	C.W/AG	1078	902	22	310
	An/AG	1000	686	28	285

An - Annealed
H.W - Hot WorkedC.W - Cold Worked
AG - AgedDC - Distortion Correction
ST - Solution Annealed

RT - Room Temperature

Disclaimer : All the information on this table is published in good faith and for general information purpose only and not for technical design purposes. We do not make any warranties about the completeness, reliability and accuracy of this information. Any action you take upon the information on this table is strictly at your own risk, and we will not be liable for any losses and damages in connection with the use of this table.

Alloy **825** (Out Source)

UNS N08825

Specification ▶ ASTM B425
ASME SB425
NACE MR0175
NACE MR0103

Density ▶ 8.14

Has good resistance to stress-corrosion cracking, pitting and crevice corrosion, and oxidizing and non-oxidizing hot acids.

Major Chemical Composition (%)	Ni	Cr	Mo	Cu	Fe
	42.0	21.5	3.0	2.2	30.0
	etc Ti 0.9				

Typical Mechanical Property (RT)		Tensile Strength (MPa)	0.2% Yield Strength (MPa)	Elongation (%)	Hardness (HB)
	An	647	333	33	160

Alloy **600**

UNS N06600

Specification ▶ ASTM B166
ASME SB166
AMS 5665
NACE MR0103

Density ▶ 8.42

High-Ni and high Cr content alloy with outstanding oxidation resistance and corrosion resistance at high temperatures up to 1180C.

Major Chemical Composition (%)	Ni	Cr	Mo	Cu	Fe
	76.0	15.5	-	-	8.0
	etc -				

Typical Mechanical Property (RT)		Tensile Strength (MPa)	0.2% Yield Strength (MPa)	Elongation (%)	Hardness (HB)
	H.W	706	431	38	180
	C.W	882	706	20	235
	An	608	284	45	145

Alloy **601**

UNS N06601

Specification ▶ ASTM B166
ASME SB166

Density ▶ 8.11

Has carburization resistance and sulfuration resistance; and shows outstanding properties of oxidation resistance and scale peeling resistance at high temperatures up to 1260C.

Major Chemical Composition (%)	Ni	Cr	Mo	Cu	Fe
	60.5	23.0	-	-	14.1
	etc Al1.4				

Typical Mechanical Property (RT)		Tensile Strength (MPa)	0.2% Yield Strength (MPa)	Elongation (%)	Hardness (HB)
	ST	686	294	55	130

Alloy **625**

UNS N06625

Specification ▶ ASTM B446
ASME SB446
AMS 5666
NACE MR0175
NACE MR0103

Density ▶ 8.44

Shows outstanding corrosion resistance, high strength, tenacity, oxidation resistance and fatigue strength at temperatures from extremely low to as high as 980C.

Major Chemical Composition (%)	Ni	Cr	Mo	Cu	Fe
	61.0	21.5	9.0	-	2.5
	etc Nb+Ta3.7				

Typical Mechanical Property (RT)		Tensile Strength (MPa)	0.2% Yield Strength (MPa)	Elongation (%)	Hardness (HB)
	H.W	980	588	45	210
	An	931	539	45	180

Alloy **718**

UNS N07718

Specification ▶ ASTM B637
ASME SB637
AMS 5662
AMS 5663

Density ▶ 8.19

Is an age-hardening alloy having outstanding strength against temperatures from -250C to 700 C, and can be welded at aged condition. Has outstanding oxidation resistance up to 980 C.

Major Chemical Composition (%)	Ni	Cr	Mo	Cu	Fe
	52.5	19.0	3.0	-	18.5
	etc Ti0.9 Nb+Ta5.1				

Typical Mechanical Property (RT)		Tensile Strength (MPa)	0.2% Yield Strength (MPa)	Elongation (%)	Hardness (HB)
	H.W/AG	1372	1225	16	393
	ST/AG	1343	1176	17	382

Alloy **800H(T)**

UNS N08810 / 08811

Specification ▶ ASTM B408
ASME SB408

Density ▶ 7.95

Has oxidation resistance and carburization resistance at high temperatures and outstanding corrosion resistance, and is resistant to internal oxidation. Has higher thermal strength against high temperature of 621C or higher.

Major Chemical Composition (%)	Ni	Cr	Mo	Cu	Fe
	32.5	21.0	-	-	46.0
	etc C0.08 (Al+Ti1.0)				

Typical Mechanical Property (RT)		Tensile Strength (MPa)	0.2% Yield Strength (MPa)	Elongation (%)	Hardness (HB)
	ST	559	245	40	140

Alloy **X**

UNS N06002

Specification ▶ ASTM B572
ASME SB572
AMS 5754

Density ▶ 8.3

Shows excellent oxidation resistance up to 1200°C (2190°F), high-temperature strength, and good resistant to stress corrosion cracking.

Major Chemical Composition (%)	Ni	Cr	Mo	Co	Fe
	47.5	21.5	9.0	1.5	18.5
	etc W 0.6				

Typical Mechanical Property (RT)		Tensile Strength (MPa)	0.2% Yield Strength (MPa)	Elongation (%)	Hardness (HB)
	ST	784	343	45	184

- ◆ Inconel, Incoloy, and Monel are registered trademarks of Special Metal Corporation.
- ◆ Carpenter is a registered trademark of Carpenter Technology Corporation.
- ◆ Hastelloy is a registered trademark of Haynes International, Inc.

The values in the tables are only for reference, and not guaranteed maximum values or minimum values. For detailed information, please contact us.

Available Nickel Alloy Stock from Global Partners

Alloy	Round Bar	Plate / Sheet	Pipe
	Min - Max	Min - Max	
Alloy 20	4.76 - 279.4	1.6 - 50.8	○
Alloy 200/201	9.52 - 190.5	0.1 - 50.8	○
Alloy 31	-	2 - 25	
Alloy 400	4.76 - 279.5	0.45 - 76.2	○
Alloy K500	12.7 - 304.8	0.81 - 50.8	
Alloy 59	50 - 200	2 - 20	△
Alloy 600	8 - 203.2	0.41 - 76.2	○
Alloy 601	6.35 - 76.2	0.5 - 50.8	○
Alloy 617	19.05 - 152.4	0.4 - 50.8	
Alloy 625	4.76 - 400	0.25 - 101.6	○
Alloy 686	-	1.58 - 38.1	
Alloy 718 API6A / NACE	12.7 - 350	-	
Alloy 718 AMS5662	6.35 - 305	0.25 - 101.6	
Alloy 718 AMS5663	4.75 - 203.2	-	
Alloy 800H/HT	12.7 - 203.2	0.51 - 50.8	○
Alloy 825	6 - 350	0.81 - 50.8	○
Alloy B2/B3	10 - 203.2	0.53 - 31.8	
C2000	12.7 - 203.2	0.63 - 25.4	
Alloy C22	3.18 - 279.4	0.5 - 50.8	○
Alloy C276	3.18 - 279.4	0.35 - 63.5	○
Alloy 925	12.7 - 279	-	
Alloy X750	4.76 - 203.2	0.13 - 63.5	
MP35N	12.7 - 76.2	-	
HY MU 80	41.28 - 45.12	0.25 - 6.35	
N155 (Mulimet)	3.94 - 63.5	0.46 - 38.1	
330	3.17 - 152.4	0.7 - 76.2	○
Rene41	6.73 - 82.8	0.36 - 12.7	
Ti6Al - 4V	9.52 - 152.4	0.64 - 101.6	
Ti6Al - 4V ELI	3.18 - 88.9	19.05 - 165.1	
Alloy 36	3.18 - 250	0.38 - 152.4	
Alloy 42	-	6.35 - 38.1	
Kovar	1.59 - 31.75	0.8 - 25.4	
Super Invar	12.7 - 102	6.35 - 50.8	
Stellite 6B	9.52 - 89.2	-	
Alloy 75	6.35 - 76.2	0.5 - 16	
Alloy 80A	3 - 127	-	
Alloy 263	12.7 - 152.4	1 - 38.1	
Hastelloy X	9.78 - 254	0.25 - 76.2	
HA188	9.78 - 168.27	0.25 - 50.8	
HA230	9.78 - 152.4	0.4 - 38.1	
HA242	7.93 - 25.4	-	
HS25 (L605)	5.2 - 168	0.25 - 38.1	
Waspaloy	11.5 - 50.8	0.3 - 19.05	

○Various sizes available in stock. △Only limited sizes available in stock.

Available Stainless Steel Stock from Global Partners

Alloy	Round Bar	Plate / Sheet	Pipe
	Min - Max	Min - Max	
253MA	12.7 - 101.6	1.5 - 50.8	○
S32760	12.7 - 580	2 - 100	○
S32750	12.7 - 500	3 - 88.9	○
S31803 / 32205	8 - 580	2 - 152.4	○
Alloy 255 (Ferralium255)	12.7 - 355.6		
446	0.35 - 101.6		△
A286	8 - 215	0.25 - 101.6	○
304H	19.05 - 355.6	4.8 - 152.4	○
309/S	3.17 - 457.2	0.97 - 76.2	△
310/S	3 - 300	0.3 - 76.2	
316Ti	7 - 625	1 - 110	○
317L	3.17 - 457.2	2 - 101.6	○
321	10 - 520	1.5 - 101.6	○
347 / 347H	12 - 415	4.8 - 101.6	
13-8Mo	12.7 - 215.9	1.65 - 101.6	
15-5PH	11.11 - 203	4.76 - 50.8	
17-4PH (630)	3 - 502	4.8 - 101.6	
17-4PH H1150 D	25.4 - 480		
Custum455	12.7 - 107.95		
XM-19 (Nitronic50)	12.7 - 400		
Alloy218 (Nitronic60)	9.52 - 406.2	4.7 - 51	
403	3 - 450	-	
410	10 - 360	4 - 101.6	
410S	-	1.5 - 76.2	
416 / 416HT	2 - 457.2		
420J2	2.5 - 400	10 - 75	
420F	18 - 400		
420	5 - 500		
430	2 - 200	0.3 - 50	
431	2 - 500		
430F	1.5 - 400		
440C	3 - 400	3 - 250	
S31254 (F44)	8 - 400	2 - 80	△
N08367	9.52 - 203.2	0.6 - 76.2	
904L	6 - 400	2 - 65	○

○Various sizes available in stock. △Only limited sizes available in stock.