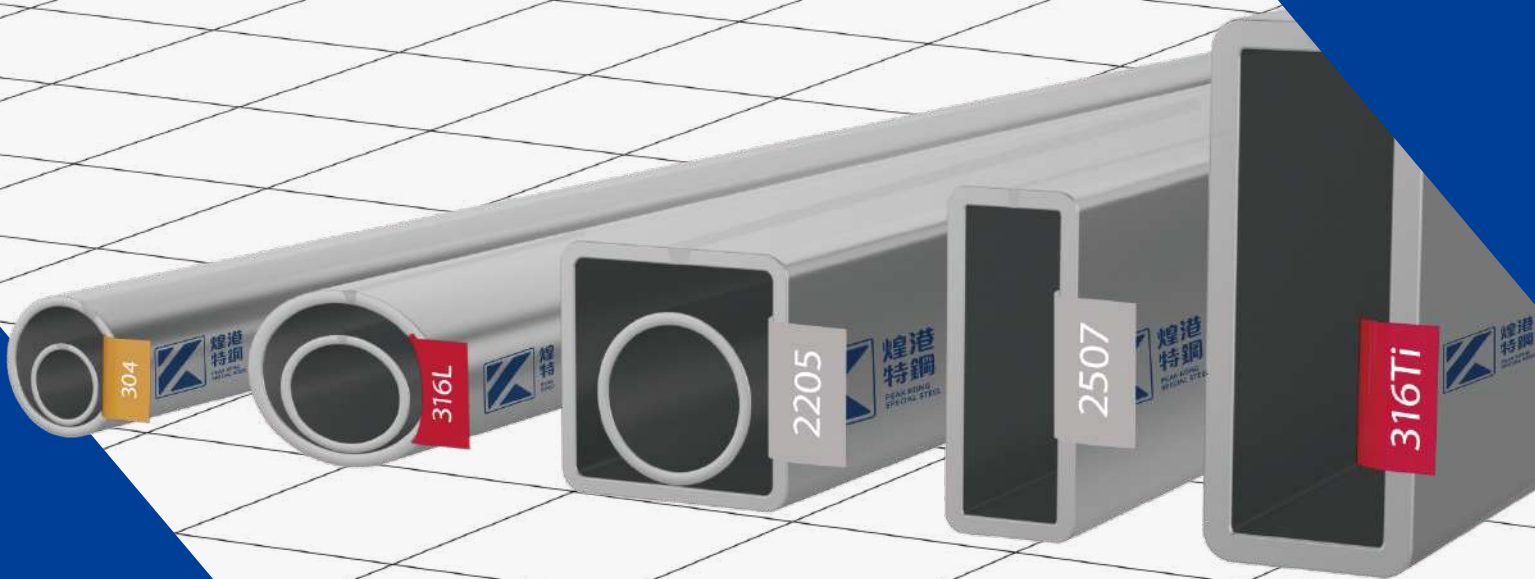




PEAKKONG SPECIAL STEEL CO.,LTD



STAINLESS STEEL HOLLOW STRUCTURAL SECTION



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INTRODUCTION

Peakkong Special Steel Co., Ltd.

Peakkong Special Steel is dedicated to providing cutting-edge technology, software, and services for the manufacturing and development of laser-welded structural profiles.

We are a leader in stainless steel and duplex stainless steel services. working closely with our customers, we enhance the performance of stainless steel hollow structural profiles, identify new product solutions, and optimize manufacturing processes.

During the design phase of our stainless steel profiles, we ensure that all manufacturing technologies are considered. This ensures that our customers receive the most cost-effective solution while meeting the highest quality standards.

We offer our customers:stainless steel hollow structural sections,duplex/super duplex stainless steel hollow structural sections,together, we can develop new possibilities for corrosion-resistant, lighter, and more sustainable stainless steel products and engineering solutions.



Application of Stainless Steel Hollow Structural Steel





Stainless Steel Grades For Hollow Profile Materials

	steels			Typical chemical composition,%						R _{p0.2} {N/mm}	R _{p0.2} {N/MM}	R _m {N/MM}	A ₅ {%}	KV{J}	Description
	EN	ASTM	OUTOK	C	N	Cr	Ni	Mo	Muut	RT ³⁾	RT ³⁾	RT ³⁾	RT ³⁾	RT ³⁾	
Feritic stainless steels	1.4003	S40977	4003	0.02	-	11.5	0.5	-	-	280	-	450	20	-	12Cr multi-purpose stainless steel
	1.4016	430	4016	0.04	-	16.5	-	-	-	260	-	450	20	-	17Cr multi-purpose stainless steel
	1.4509	S43940	4509	0.02	-	18	-	-	Ti+Nb	230	-	430	18	-	18Cr multi-purpose stainless steel
	1.4512	409		0.03	-	11	-	-	Ti	210	-	380	25	-	Exhaust pipe and catalyzer stainless steel
	1.4521	444		0.02	-	18	-	2	Ti+Nb	303	-	420	20	-	Hot water accumulator stainless steel
Duplexsteels	1.4462	S32101	LDX2101*	0.03	0.22	21.5	1.5	0.3	5Mn	450	490	650	30	60	Low-alloy duplex steel
	1.4362	S32304	2304	0.02	0.10	23	4.8	0.3	-	400	-	630	25	60	Low-alloy duplex steel
	1.4462	S32205	2205	0.02	0.17	22	5.7	3.1	-	460	-	640	25	60	Medium-alloy duplex steel
	1.4410	S32750	2507	0.02	0.27	25	7	4	-	530	-	730	20	60	High-alloy duplex steel
Austenitic CrNi and CrNiMo steels	1.4318	301LN	4318	0.02	0.14	17.7	6.5	-	-	350	380	650	40	60	N-alloyed multi-purpose stainless steel
	1.4372	201	4372	0.05	0.15	17	5	-	6.5Mn	350	380	750	45	60	Mn-alloyed multi-purpose stainless steel
	1.4301	304	4301	0.04	-	8.1	8.3	-	-	210	250	520	45	60	Multi-purpose stainless steel
	1.4307	304L	4307	0.02	-	8.1	8.3	-	-	200	240	500	45	60	Low-carbon multi-purpose stainless steel
	1.4311	304LN	4311	0.02	0.14	18.5	10.5	-	-	270	310	550	40	60	Nitrogen alloyed stainless steel
	1.4541	321	4541	0.04	-	17.3	9.1	-	Ti	200	240	500	40	60	Ti stabilised stainless steel
	1.4306	304L	4306	0.02	-	18.2	10.1	-	-	200	240	500	45	60	Low-carbon stainless steel
Austenitic CrNiMo steels	1.4401	316	4401	0.04	-	17.2	10.2	2.1	-	220	260	520	45	60	CrNiMo steel
	1.4404	316L	4404	0.02	-	17.2	10.1	2.1	-	220	260	520	45	60	Low-carbon CrNiMo steel
	1.4436	316	4436	0.04	-	16.9	10.7	2.6	-	220	260	530	40	60	High molybdenum CrNiMo (2.6Mo) steel
	1.4432	316L	4432	0.02	-	16.9	10.7	2.6	-	220	260	520	45	60	Low-carbon, high molybdenum CrNiMo (2.6 Mo) steel
	1.4406	316LN	4406	0.02	0.14	17.2	10.3	2.1	-	280	320	580	40	60	Nitrogen alloyed CrNiMo steel
	1.4571	316Ti	4571	0.04	-	16.8	10.9	2.1	Ti	220	260	520	40	60	Ti stabilised CrNiMo steel
	1.4435	316L	4435	0.02	-	17.3	12.6	2.6	-	220	260	520	45	60	Low-carbon CrNiMo steel
Austenitic high alloy steels	1.4439	317LMN	4439	0.02	0.14	17.8	12.7	4.1	-	200	310	580	40	60	Special stainless steel for the chemical industry
	1.4539	N08904	904L	0.01	-	20	25	4.3	1.5Cu	220	260	520	35	60	e.g. tension load bearing structures in swimming pools
	1.4529	N08926	4529	0.02	0.20	20	25	6.5	0.5Cu	300	340	650	40	60	e.g. tension load bearing structures in swimming pools
	1.4547	S3154	254 SMO*	0.01	0.20	20	18	6.1	Cu	300	340	650	40	60	e.g. tension load bearing structures in swimming pools
	1.4565	S34565	4565	0.02	0.45	24	17	4.5	5.5Mn	420	460	800	30	90	e.g. tension load bearing structures in swimming pools

1. Classification is based on crystal structure (ferrite, duplex (austenite-ferrite, austenite) or alloy.

2.1 Steel Grades EN 10088-2/ASTM A240/Outokumpu Mechanical properties conform to EN 10088-2.

Steel grades shown in bold are included in EN 1993-1-4. Other steel grades may be used when the design is based on Section 7 of this standard.

3. Room temperature, minimum.

Mechanical/Physical Properties

Mechanical properties

Figure 1 presents typical stress-strain curves for stainless steel. The shape of the stress-strain curves is slightly non-linear and does not include a well defined yield point. For this reason, the yield strength for stainless steels is quoted as the proof strength defined at the 0,2 % permanent offset strain.

Typical characteristics of stainless steels stress-strain behaviour are the work-hardening ability, a large value of elongation at fracture, and the high ratio of tensile strength to 0,2 % proof strength.

These characteristics are the basis for enhancing the material mechanical strength values of austenitic grades by cold working; the yield and tensile strength values can be enhanced whilst maintaining adequate values for elongation and ductility.

The stress-strain curves of three stainless steels are given in Figure 1. The lowest curve portrays the stress-strain curve in the annealed condition for austenitic steel grades such as 1.4301 and 1.4401. The 0,2 % proof strength value of ferritic steel grade 1.4003 is similar to that of the austenitic grades mentioned above, but its elongation and tensile strength values are lower.

The stress-strain curve for steel grade 1.4318 (17Cr-7Ni) is between the austenitic grades 1.4301/1.4401 and duplex steels. The 0,2 % proof strength of steel grade 1.4318 in the annealed condition corresponds to the carbon steel strength class S355. Duplex steel grades in the annealed condition are the strongest grades, as indicated by steel grade 1.4462 in Figure 1.

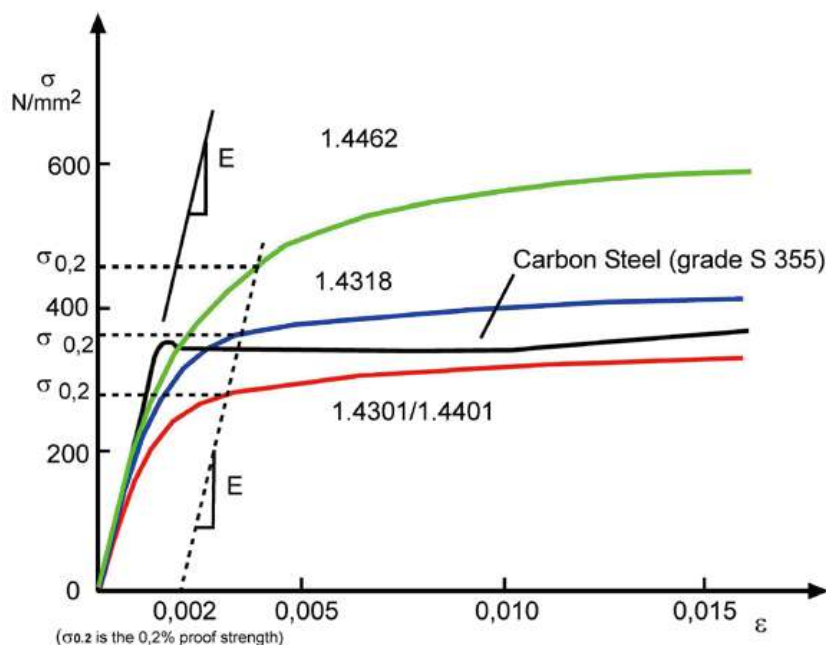


Figure 1. Typical stress-strain curves for stainless steel and carbon steel in the annealed state / Structural Stainless Steel Design Manual, EuroInox, 2006/

The typical mechanical properties for austenitic steel grades as a function of degree of cold-working are presented in figure 3.2.2. For austenitic steel grades, it is possible to obtain a yield strength of 355-500 N/mm², as is typical for structural steels, with moderate cold-working and without significantly changing the ductility properties of the material.

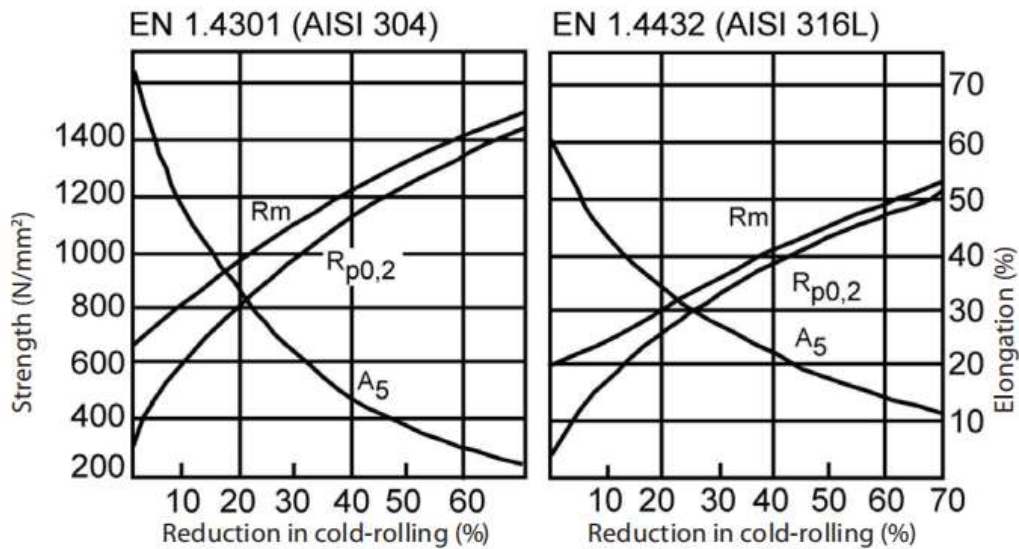


Figure 2. Mechanical properties of austenitic 1.4301 (left) and 1.4432 (right) stainless steels as a function of cold working. / Outokumpu Torneo Plant /

In compliance with EN 1993-1-4:2006, the nominal yield strength applied in design is limited to a maximum value of 480 N/mm². This limit, however, is valid only when designing in compliance with Eurocode standards. Stainless steel is widely used in industries other than the building industry and outside Europe in countries where local regulations may differ from EN 1993-1-4. It must therefore be taken into account that the yield strength of stainless steels higher than 480 N/mm² can be applicable.

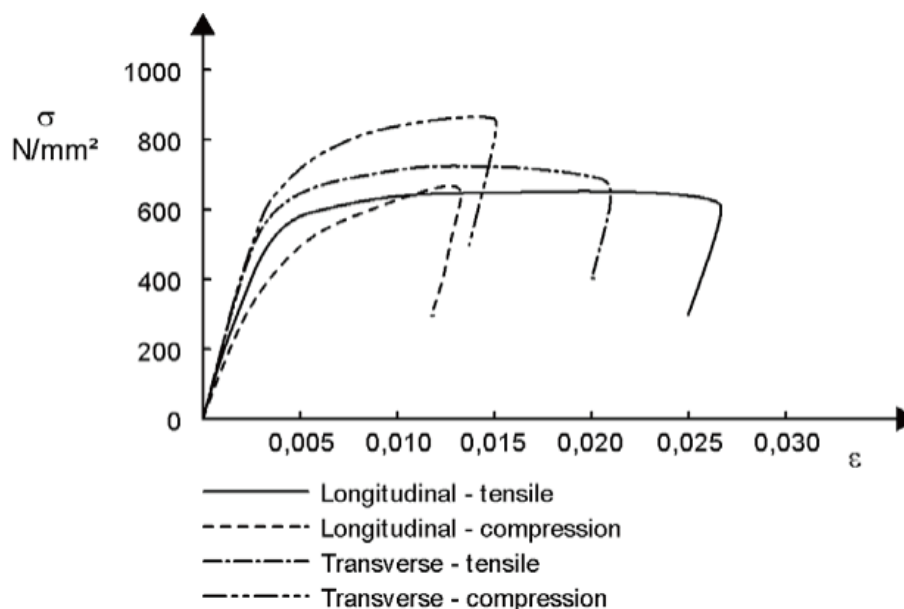


Figure 3. Typical stress-strain curves for cold-worked austenitic steels, depending on rolling and loading direction / Design Manual for Structural Stainless Steels, Euroinox, 2006 /

Anisotropy and asymmetry can be seen in the stress-strain behaviour of austenitic cold-worked steels. The lowest yield strength value is usually the longitudinal compression strength, i.e. the compression yield strength in the rolling direction. Stress-strain curves of typical cold-worked austenitic steels according to different stress types and directions are shown in Figure 3.

To take into account asymmetry of the cold worked material in those cases where compression in the longitudinal direction is a relevant stress condition (i.e. column behaviour or bending) and there exist no knowledge about the value of yield strength in that direction, the characteristic value should be taken as $0,8 \times 0,2\%$ proof strength in table 1.

A higher value may be used if supported by appropriate experimental data /design manual for structural stainless steel, Euro Inox, 2006/.

Cold-worked stainless steels are classified in compliance with EN 10088-2 to strength classes either on the basis of the 0,2 % proof strength (e.g. CP350, in which 350 means $R_{0,2,min} = 350 \text{ N/mm}^2$) or tensile strength (eg. C700, $R_m = 700 \text{ N/mm}^2$).

The strength classes used with structural calculations are defined in compliance with the standard EN1993-1-4, the maximum yield strength being 480 N/mm^2 .

Materials with higher strength classes can be used if their properties are found to be appropriate in compliance with standard EN 1993-1-4 section 7. Table 1 shows the most commonly used strength classes and steel grades that satisfy the strength requirement.

Table 1: Cold-finished steel materials according to EN 10088-2:2005, suitable for design according to EN 1993-1-4.

	R _m [MPa]	R _m [MPa]	Available steel grades in strip and plate products
CP350	350-500	-	1.4318 ² , 1.4301, 1.4307, 1.4401, 1.4404
CP350	500-700	-	1.4318, 1.4301, 1.4307, 1.4401, 1.4404
C700	-	700-850	1.4318, 1.4301, 1.4307, 1.4401, 1.4404
C850	-	850-1000	1.4318, 1.4301, 1.4307, 1.4401, 1.4404
1 Property class in compliance with EN 10088-2, CP= proof strength, C= tensile strength			
2 Meets the property class requirements in soft annealed condition (designated 2B in EN 10088)			

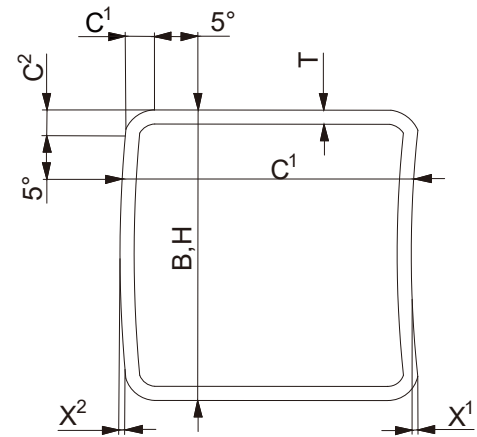
Dimensional Tolerance

Rectangular Hollow Sections Stainless steel

Cold formed and welded acc. to EN 10219-2;

grade according to EN 10088.

Surface condition: external weld seam removed, brushed /
blasted and pickled.

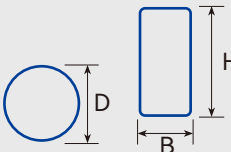
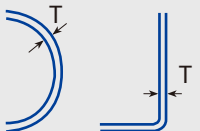
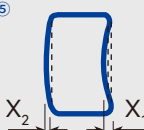
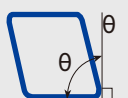
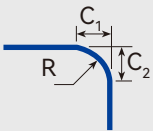
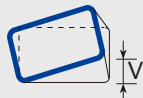
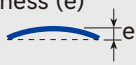


TOLERANCES (ACCORDING TO EN 10219-2)		
Characteristic	Tolerance	
Outside dimensions, B and H	$B, H < 100 \text{ mm: } \pm 1 \%, \text{ min } \pm 0.5 \text{ mm}$ $100 \text{ mm} \leq B, H \leq 200 \text{ mm: } \pm 0.8 \%$ $B, H > 200 \text{ mm: } \pm 0.6 \%$	
Concavity / Convexity ($X'/x?$)	$Ma \rightarrow x.0.8 \%$ with a minimum of 0.5 mm	
Wall thickness, T	$\pm 10 \%$, when $T \leq 5 \text{ mm}$ $\pm 0.5 \text{ mm}$, when $T > 5 \text{ mm}$	
Squareness of sides	90 ± 10	
External corner profile, C1, C2 or R	$B+H \leq 200 \text{ mm and } T \leq 3 \text{ mm: Max } 1.5T$ $B+H \leq 200 \text{ mm and } T > 3 \text{ mm: } 1.6T - 2.4T$ $B+H > 200 \text{ mm and } T \leq 4 \text{ mm: } 2T - 3T$ $B+H > 200 \text{ mm and } T > 4 \text{ mm: } 1.6T - 2.4T$	1)
Length, L	Standard length 6 m, tolerance $0/+20 \text{ mm}$	1)
Straightness	0.15% of total length	
Twist	$2 \text{ mm} + 0.5 \text{ mm/m}$	

This dimension is maximum when measuring B or hand minimum when measuring T

Technical Data

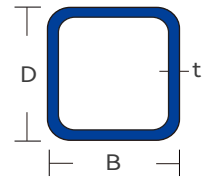
Dimensional Tolerances to EN 10219 and EN 10088

Characteristics	Circular hollow sections		Square/rectangular hollow sections	
	Hot finished	Cold finished	Hot finished	Cold finished
Outside dimensions (D, B and H) 	$\pm 1\%$ with a min. of $\pm 0.5\text{mm}$ and a max. of $\pm 10\text{mm}$	$\pm 1\%$ with a min. of $\pm 0.5\text{mm}$ and a max. of $\pm 10\text{mm}$	$\pm 1\%$ ^① with a min. of $\pm 0.5\text{mm}$ and a max. of $\pm 10\text{mm}$	• H, B < 100mm $\pm 1\%$ with a min. of $\pm 0.5\text{mm}$ • $100\text{mm} \leq H$ $B \leq 200\text{mm}$ $\pm 0.8\%$ • H, B > 200mm $\pm 0.6\%$
Thickness(T) 	-10% ^{②③}	• $D \leq 406.4\text{ mm}$ $T \leq 5\text{ mm}$ $\pm 10\%$ $T > 5\text{ mm}$ $\pm 0.50\text{mm}$ • $D > 406.4\text{ mm}$ $\pm 10\%$ with max. of $\pm 2\text{mm}$	-10% ^{②③}	• $T \leq 5\text{mm}$ $\pm 10\%$ • $T > 5\text{mm}$ $\pm 0.5\text{mm}$
Out of roundness(O) $\frac{D_{\text{max.}} - D_{\text{min.}}}{100}$ 	2% max.D nominal if $D/T \leq 100$ ④	2% max.D nominal if $D/T \leq 100$ ④		
Concavity/Convexity (X_1, X_2) ^⑤ 			1%	0.8% max. with a min. of 0.5mm
Squareness of side (θ) 			$90^\circ \pm 1^\circ$	$90^\circ \pm 1^\circ$
External corner profile (C_1, C_2 , or R) 			$R \leq 3T$	• $T \leq 6\text{mm}$ $R = 1.6T$ to $2.4T$ • $6 < T \leq 10\text{mm}$ $R = 2.0T$ to $3.0T$ • $T > 10\text{mm}$ $R = 2.4T$ to $3.6T$
Twist(V) 			2mm ^① + 0.5mm/m in length ^①	
Straightness (e) 	0.20% ^① of total length & 3mm over any 1m length		0.20% of total length & 3mm over any 1m length	0.20% of total length
Mass (M)	$\pm 6\%$ in individual lengths ⑦		$\pm 6\%$ in individual lengths ⑦	

Product Certification



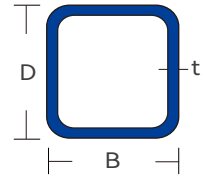
Stainless Steel Square Hollow Section



Size	Thickness	Mass per Unit Length
D x B (mm)	t (mm)	kg/m
10 x 10	1.0	0.29
15 x 15	1.0	0.45
	1.2	0.54
	1.5	0.66
16 x 16	1.0	0.49
	1.2	0.58
	1.5	0.71
20 x 20	1.0	0.61
	1.2	0.73
	1.5	0.90
	2.0	1.18
25 x 25	2.5	1.35
	1.0	0.77
	1.2	0.92
	1.5	1.14
	2.0	1.50
30 x 30	2.5	1.74
	3.0	2.17
	1.0	0.93
	1.2	1.11
	1.5	1.38
35 x 35	2.0	1.81
	2.5	2.24
	3.0	2.65
	1.0	1.09
40 x 40	1.2	1.30
	1.5	1.62
	2.0	2.13
	2.5	2.64
	3.0	3.12
45 x 45	1.0	1.25
	1.2	1.50
	1.5	1.86
	2.0	2.45
	2.5	3.03
	3.0	3.60
50 x 50	4.0	4.70
	5.0	5.40
	1.5	2.10
	2.0	2.77
	1.5	2.34
	2.0	3.09
60 x 60	2.5	3.83
	3.0	4.56
	4.0	5.98
	5.0	7.35
	6.0	8.20
	8.0	10.50
60 x 60	1.5	2.81
	2.0	3.73
	2.5	4.63
	3.0	5.52
	3.2	5.67
	3.6	6.34
	4.0	7.26
60 x 60	5.0	8.94
	6.0	9.45

Size	Thickness	Mass per Unit Length
D x B (mm)	t (mm)	kg/m
70 x 70	2.0	4.37
	2.5	5.28
	3.0	6.47
	3.5	7.25
	3.6	7.46
	4.0	8.53
	5.0	10.10
	6.3	12.50
	8.0	15.30
75 x 75	10.0	19.13
	3.0	7.07
	4.0	9.43
	5.0	11.78
80 x 80	6.0	14.14
	1.5	3.77
	2.0	5.00
	2.5	6.22
	3.0	7.43
	3.5	8.35
	3.6	8.59
	4.0	9.81
	5.0	12.13
	6.0	13.80
90 x 90	6.3	14.40
	8.0	17.83
	10.0	21.88
	3.0	8.16
	3.5	9.45
	3.6	9.72
	4.0	10.70
	5.0	13.30
	6.0	15.70
	6.3	16.40
100 x 100	8.0	20.32
	10.0	25.53
	2.0	6.28
	3.0	9.34
	4.0	12.36
	5.0	15.32
	6.0	17.60
120 x 120	6.3	18.40
	8.0	22.90
	10.0	27.86
	12.0	33.44
	3.0	11.42
	4.0	15.12
	5.0	18.77
	6.0	21.30
140 x 140	6.3	22.30
	8.0	27.90
	10.0	34.13
	12.0	39.94
	12.5	41.6
	5.0	21.10
	6.0	25.97
140 x 140	6.3	26.30
	8.0	32.89
	10.0	41.15
	12.5	49.50

Stainless Steel Square Hollow Section (Continued)



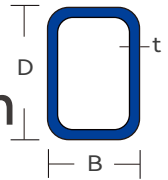
Size	Thickness	Mass per Unit Length
D x B (mm)	t (mm)	kg/m
150 x 150	3.0	14.13
	4.0	18.14
	5.0	23.30
	6.0	27.00
	6.3	28.30
	8.0	35.40
	10.0	43.47
	12.0	53.48
	12.5	55.71
	16.0	65.05
160 x 160	5.0	22.83
	6.0	27.39
	8.0	36.90
	10.0	46.88
	12.0	54.78
180 x 180	5.0	27.97
	6.0	33.26
	6.3	34.20
	8.0	43.00
	10.0	53.00
	12.0	61.01
	12.5	65.20
	16.0	81.30
200 x 200	3.0	18.91
	4.0	25.12
	5.0	31.27
	6.0	37.09
	6.3	38.2
	8.0	48.00
	10.0	59.30
	12.0	68.84
	12.5	73.00
	16.0	90.91

Size	Thickness	Mass per Unit Length
D x B (mm)	t (mm)	kg/m
220 x 220	4.0	26.09
	5.0	32.62
	6.0	39.14
	8.0	52.18
	10.0	65.23
	12.0	78.28
250 x 250	4.0	31.50
	6.0	46.83
	6.3	48.10
	8.0	60.50
	10.0	75.00
	12.0	88.45
300 x 300	12.5	92.70
	16.0	111.48
	6.0	55.30
	6.3	57.90
	8.0	74.18
	10.0	90.70
350 x 350	12.0	108.68
	12.5	112.00
	16.0	141.84
	8.0	85.70
400 x 400	10.0	105.93
	12.0	126.74
	12.5	132.00
	16.0	166.94
500 x 500	8.0	97.56
	10.0	121.95
	12.0	146.34
	12.5	152.00
	16.0	191.94
	8.0	125.25
	10.0	155.43
	12.0	185.75
	12.5	193.39
	18.0	275.20
	20.0	304.51
	22.0	333.57
	25.0	376.68

Remarks:

Can be customized according to customer requirements of non-standard size stainless steel hollow section thickness. Welcome to inquire.

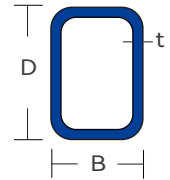
Stainless Steel Rectangular Hollow Section



Size	Thickness	Mass per Unit Length
D x B (mm)	t (mm)	kg/m
20 x 10	1.0	0.45
	1.2	0.54
	1.5	0.66
20 x 15	1.5	0.78
	2.0	1.02
25 x 10	1.0	0.53
	1.5	0.78
25 x 15	1.0	0.61
	1.2	0.73
	1.5	0.90
	2.0	1.18
30 x 10	1.0	0.61
	1.2	0.73
	1.5	0.90
30 x 15	1.0	0.68
	1.2	0.81
	1.5	1.00
	2.0	1.30
30 x 20	1.0	0.77
	1.2	0.92
	1.5	1.14
	2.0	1.50
35 x 20	1.0	0.85
	1.5	1.26
	2.0	1.65
40 x 10	1.5	1.14
40 x 15	1.0	0.85
	1.2	1.01
	1.5	1.26
	2.0	1.65
40 x 20	1.0	0.93
	1.2	1.11
	1.5	1.38
	2.0	1.81
	2.5	2.03
40 x 25	1.5	1.44
	2.0	1.89
	2.5	2.23
	3.0	2.65
40 x 27	1.5	1.55
40 x 30	1.0	1.09
	1.2	1.30
	1.5	1.62
	2.0	2.13
	3.0	3.12
50 x 10	1.5	1.38
50 x 20	1.0	1.09
	1.2	1.30
	1.5	1.62
	2.0	2.13
50 x 25	1.2	1.42
	1.5	1.76
	2.0	2.32
	2.5	2.69
50 x 30	3.0	3.41
	1.2	1.50
	1.5	1.86
	2.0	2.45
50 x 30	2.5	2.92

Size	Thickness	Mass per Unit Length
D x B (mm)	t (mm)	kg/m
50 x 30	3.0	3.45
	3.2	3.66
	4.0	4.46
	5.0	5.40
50 x 40	2.0	2.77
	3.0	4.08
60 x 10	1.5	1.62
60 x 20	1.2	1.50
	1.5	1.86
	2.0	2.45
60 x 30	1.2	1.69
	1.5	2.10
	2.0	2.77
	3.0	4.08
60 x 40	1.5	2.34
	2.0	3.09
	2.5	3.83
	3.0	4.56
	4.0	5.98
	5.0	6.97
70 x 20	6.3	8.49
	2.0	2.77
	2.0	3.41
	3.0	5.04
70 x 50	2.0	3.56
	2.5	4.39
	3.0	5.19
	4.0	6.71
80 x 20	2.0	3.09
80 x 30	3.0	5.04
80 x 40	1.5	2.81
	2.0	3.73
	2.5	4.63
	3.0	5.52
	3.2	5.67
	4.0	7.26
	5.0	8.94
	6.3	10.5
	8.0	12.8
80 x 50	3.0	6.00
	4.0	7.34
	5.0	9.01
	6.0	10.81
80 x 60	2.0	4.37
	3.0	6.47
	4.0	8.53
90 x 50	3.0	6.28
	3.6	7.46
	5.0	10.11
	6.3	12.5
100 x 40	8.0	15.3
	1.5	3.29
	2.0	4.37
	3.0	6.47
	4.0	8.53
100 x 40	5.0	10.66
	6.0	12.80

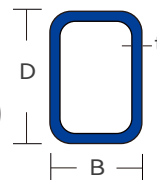
Stainless Steel Rectangular Hollow Section (Continued)



Size	Thickness	Mass per Unit Length
D x B (mm)	t (mm)	kg/m
100 x 50	2.0	4.69
	2.5	5.63
	3.0	6.95
	3.2	7.18
	4.0	9.17
	5.0	11.34
	6.3	13.4
100 x 60	2.0	5.00
	3.0	7.43
	4.0	9.81
	3.6	8.59
	5.0	12.13
	6.3	14.4
	8.0	17.8
100 x 80	2.0	5.64
	3.0	8.39
	4.0	11.08
	5.0	13.85
	6.0	16.62
	8.0	22.16
120 x 40	2.0	5.00
	3.0	7.43
	4.0	9.81
	5.0	12.26
120 x 60	2.0	5.64
	3.0	8.39
	3.6	9.72
	4.0	11.08
	5.0	13.73
	6.3	16.40
120 x 80	2.0	6.28
	2.5	7.65
	3.0	9.34
	4.0	12.36
	5.0	15.32
	6.0	17.60
	6.3	18.4
	8.0	22.9
120 x 100	3.0	9.45
	4.0	12.60
	5.0	15.74
	6.0	18.89
	8.0	25.19
140 x 60	3.0	9.32
140 x 70	3.0	8.79
	4.0	11.72
	5.0	14.65
	6.0	17.58
	8.0	23.44
140 x 80	3.0	9.21
	4.0	12.28
	5.0	15.35
	6.0	18.41
	8.0	24.55
	10.0	30.69

Size	Thickness	Mass per Unit Length
D x B (mm)	t (mm)	kg/m
140 x 100	3.0	11.27
150 x 50	2.0	6.28
	3.0	9.34
	4.0	12.56
	5.0	15.70
	6.0	18.84
150 x 80	3.0	10.77
	4.0	14.36
	5.0	17.95
	6.0	21.54
	8.0	28.72
150 x 100	3.0	11.74
	4.0	15.55
	5.0	19.31
	6.0	22.30
	6.3	23.3
	8.0	29.10
160 x 80	10.0	35.70
	12.5	43.6
	3.0	11.26
	4.0	15.01
	5.0	18.51
	6.0	21.30
	6.3	22.3
160 x 90	8.0	27.90
	10.0	34.2
	12.5	41.6
	3.0	10.69
	4.0	14.25
	5.0	17.81
180 x 80	6.0	21.38
	8.0	28.50
	10.0	35.63
	12.0	42.75
	3.0	11.34
180 x 100	4.0	15.12
	5.0	18.89
	6.0	22.67
	8.0	30.23
	3.0	12.21
	4.0	16.28
200 x 50	5.0	20.35
	6.0	24.42
	8.0	32.55
	10.0	40.69
	12.0	48.83
200 x 80	3.0	11.25
	4.0	15.00
	5.0	18.75
	6.0	22.50
200 x 80	3.0	12.39
	4.0	16.52
	5.0	20.65
	6.0	24.78
	8.0	33.04

Stainless Steel Rectangular Hollow Section (Continued)



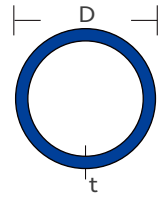
Size	Thickness	Mass per Unit Length
D x B (mm)	t (mm)	kg/m
200 x 100	3.0	14.13
	4.0	18.74
	5.0	23.30
	6.0	27.00
	6.3	28.30
	8.0	35.40
	10.0	43.60
	12.5	53.40
200 x 120	16.0	66.40
	5.0	24.2
	6.3	30.3
	8.0	37.9
200 x 150	10.0	46.7
	12.5	57.3
	5.0	26.6
	6.3	33.2
250 x 100	8.0	41.7
	10.0	51.4
	12.5	63.2
	16.0	78.9
	5.0	26.6
250 x 150	6.3	38.20
	8.0	48.0
	10.0	59.3
	12.5	73
	16.0	91.5
300 x 100	6.3	38.2
	8.0	48
	10.0	59.3
	12.5	73
300 x 150	16.0	91.5
	4.0	27.00
	5.0	33.75
	6.0	40.50
	8.0	54.00
300 x 200	10.0	67.50
	12.5	81.00
	16.0	99.00

Size	Thickness	Mass per Unit Length
D x B (mm)	t (mm)	kg/m
300 x 200	6.3	48.10
	8.0	60.50
	10.0	75
	12.5	92.6
	16.0	117
300 x 250	6.3	53
	8.0	66.8
	10.0	82.8
	12.5	102
350 x 150	16.0	129
	6.3	48.1
	8.0	60.5
	10.0	75
350 x 250	12.5	92.6
	16.0	117
	8.0	73.1
	10.0	90.7
400 x 150	12.5	112
	16.0	142
	6.3	53
	8.0	66.8
400 x 200	10.0	82.8
	12.5	102
	16.0	129
	6.3	57.9
400 x 300	8.0	73.10
	10.0	90.70
	12.5	112
	16.0	142
450 x 250	10.0	106
	12.5	132
	16.0	167
500 x 200	8.0	85.7
	10.0	106
	12.5	132
500 x 300	16.0	167
	8.0	84.65
	10.0	105.82
	12.0	126.98
	8.0	96.91
	10.0	121.14
500 x 400	12.0	145.37
	16.0	195.99
	20.0	241.07
	25.0	297.38

Remarks:

Can be customized according to customer requirements of non-standard size stainless steel hollow section thickness. Welcome to inquire.

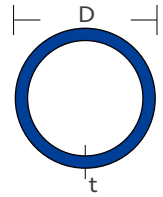
Stainless Steel Circular Hollow Section(Welded type)



Outside Diameter	Thickness	Mass per Unit Length
D (mm)	t (mm)	kg/m
15	1.0	0.35
	1.5	0.58
	2.0	0.65
16	1.0	0.38
	1.5	0.55
	2.0	0.70
	3.0	0.97
18	1.0	0.43
	1.5	0.62
	2.0	0.80
	3.0	1.21
20	1.0	0.48
	1.5	0.70
	2.0	0.90
	2.5	1.90
	3.0	1.27
21.3	1.5	0.74
	1.6	0.80
	2.0	0.97
	2.5	1.18
	2.6	1.22
	3.0	1.38
22	1.0	0.53
	1.5	0.77
	2.0	1.00
	2.5	1.21
	3.0	1.42
25	1.0	0.60
	1.5	0.88
	2.0	1.15
	2.5	1.41
	3.0	1.65
26.9	1.5	0.95
	1.6	1.01
	2.0	1.25
	2.5	1.53
	2.6	1.58
	3.0	1.80
	3.2	1.87
33.7	1.5	1.21
	1.6	1.29
	2.0	1.59
	2.5	1.95
	2.6	2.03
	2.9	2.24
	3.0	2.31
	3.2	2.44
	4.0	2.98
38	1.0	0.93
	1.5	1.38
	1.6	1.46
	2.0	1.82
	2.5	2.23
	3.0	2.64

Outside Diameter	Thickness	Mass per Unit Length
D (mm)	t (mm)	kg/m
42.4	1.5	1.54
	2.0	2.02
	2.5	2.50
	3.0	3.14
	4.0	3.79
	5.0	4.62
48.3	6.3	5.62
	1.2	1.42
	1.5	1.76
	2.0	2.32
	2.5	2.87
	3.0	3.40
	3.2	3.61
	4.0	4.44
	5.0	5.34
60.3	6.3	6.53
	1.2	1.78
	1.5	2.21
	2.0	2.92
	2.5	3.62
	3.0	4.30
	3.2	4.58
	4.0	5.64
	5.0	6.92
	6.3	8.4
	8.0	10.33
76.1	10.0	12.42
	1.2	2.25
	1.5	2.80
	2.0	3.71
	2.5	4.61
	3.0	5.49
	3.2	5.86
	4.0	7.22
	5.0	8.77
	6.3	10.86
	8.0	13.45
88.9	10.0	16.32
	1.2	2.64
	1.5	3.28
	2.0	4.35
	2.5	5.41
	3.0	6.45
	3.2	6.87
	4.0	8.50
	5.0	10.50
	6.3	12.85
101.6	8.0	15.98
	10.0	19.48
	1.5	3.76
	2.0	4.99
	3.0	7.41
	4.0	9.78
	5.0	11.93

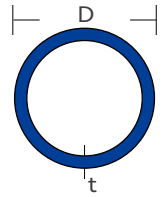
Stainless Steel Circular Hollow Section(Welded type)



Outside Diameter	Thickness	Mass per Unit Length
D (mm)	t (mm)	kg/m
114.3	1.5	4.24
	2.0	5.62
	2.5	7.02
	3.0	8.36
	4.0	11.05
	5.0	13.68
	6.3	16.8
139.7	1.5	5.19
	2.0	6.90
	3.0	10.27
	4.0	13.59
	5.0	16.86
	6.3	20.7
	8.0	26
168.3	2.0	8.33
	2.5	10.38
	3.0	12.42
	4.0	16.46
	5.0	20.44
	6.3	25.2
	8.0	31.6
	10.0	39
	12.0	46.3
193.7	5.0	23.3
	6.3	29.1
	8.0	36.6
	10.0	45.3
	12.5	55.9
219.1	2.0	10.87
	3.0	16.23
	4.0	21.54
	5.0	26.81
	6.3	33.1
	8.0	41.6
	10.0	51.6
	12.5	63.7
244.5	4.0	23.73
	5.0	29.5
	6.3	37
	8.0	46.7
	10.0	57.8
	12.5	71.5
	16.0	90.2
273	2.0	13.57
	3.0	20.28
	4.0	26.94
	5.0	33
	6.3	41.4
	8.0	52.3
	10.0	64.9
	12.5	80.3
	16.0	101

Outside Diameter	Thickness	Mass per Unit Length
D (mm)	t (mm)	kg/m
323.9	2.0	16.12
	3.0	24.11
	4.0	32.04
	5.0	39.3
	6.0	47
	6.3	49.3
	8.0	62.3
	10.0	77.4
	12.5	96
355.6	16.0	121
	8.0	68.6
	10.0	85.2
	12.5	106
406.4	16.0	134
	3.0	30.30
	4.0	40.30
	6.0	59.2
	8.0	78.6
	10.0	97.8
	12.5	121
457.0	16.0	154
	6.0	66.7
	8.0	88.6
	10.0	110
508.0	12.5	137
	16.0	174
	6.0	74.3
	8.0	98.6
	10.0	123
610.0	12.5	153
	16.0	194
	8.0	117.50
	10.0	146.00
711.0	12.0	173.98
	10.0	173.50
813.0	12.0	207.00
	12.0	238.00
914.0	12.0	270.0
	12.0	302.00
1016.0	12.0	320.00
	12.0	341.19
	10.0	292.76
1219.0	12.0	341.24
	16.0	431.19
	10.0	292.76

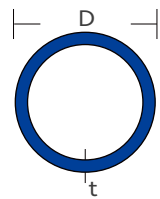
Stainless Steel Circular Hollow Section(Seamless type)



Outside Diameter	Thickness	Mass per Unit Length
D (mm)	t (mm)	kg/m
15	1.0	0.35
	1.5	0.51
	2.0	0.65
	2.5	0.78
	3.0	0.90
	4.0	1.10
16	1.0	0.38
	1.5	0.55
	2.0	0.70
	2.5	0.85
	3.0	0.98
	3.5	1.10
18	4.0	1.20
	5.0	1.38
20	1.0	0.43
	1.5	0.62
	2.0	0.80
	2.5	0.97
	3.0	1.13
	3.5	1.27
21.3	4.0	1.40
	1.0	0.48
	1.5	0.70
	2.0	0.90
	2.5	1.10
	3.0	1.28
22	3.5	1.45
	4.0	1.60
	5.0	1.88
25	1.6	0.79
	2.0	0.97
	2.6	1.22
	2.9	1.34
	3.2	1.45
26.9	1.0	0.53
	1.5	0.77
	2.0	1.00
	2.5	1.22
	3.0	1.43
	4.0	1.80
28	1.0	0.6
	1.5	0.88
	2.0	1.15
	2.5	1.41
	3.0	1.65
	3.5	1.88
30	4.0	2.10
	5.0	2.50
	6.0	2.86
33.7	1.6	1.01
	2.0	1.25
	2.3	1.42
	2.6	1.58
	2.9	1.74
	3.2	1.90
36	4.0	2.29

Outside Diameter	Thickness	Mass per Unit Length
D (mm)	t (mm)	kg/m
33.7	1.6	1.29
	2.0	1.59
	2.6	2.03
	2.9	2.24
	3.2	2.45
	3.6	2.71
42.4	4.05	3.01
	4.5	3.29
	5.0	3.59
48.3	1.6	1.64
	2.0	2.02
	2.6	2.59
	3.2	3.14
	3.6	3.50
	4.05	3.89
60.3	1.6	1.87
	2.0	2.32
	2.6	2.98
	2.9	3.30
	3.2	3.62
	3.6	4.03
76.1	4.05	4.49
	4.5	4.94
	5.0	5.42
	6.3	6.63
	7.1	7.33
	8.0	8.07
89	1.6	2.35
	2.0	2.92
	2.6	3.76
	2.9	4.17
	3.2	4.58
	3.6	5.11
101.6	4.0	5.64
	4.5	6.29
	5.0	6.93
	6.3	8.52
	7.1	9.46
	8.0	10.48
114.3	10.0	12.6
	2.0	4.25
	2.3	5.42
	2.6	6.79
	2.9	8.32
	3.2	9.84
127	3.6	11.54
	4.0	13.22
	4.5	15.07
	5.0	17.01
	6.3	21.02
	7.1	24.27
141.3	8.0	27.64
	10.0	34.56
	12.5	43.92

Stainless Steel Circular Hollow Section(Seamless type)

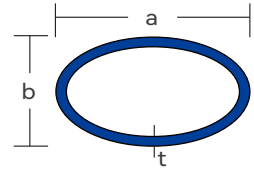


Outside Diameter	Thickness	Mass per Unit Length
D (mm)	t (mm)	kg/m
88.9	2.0	4.35
	2.3	4.99
	2.6	5.62
	2.9	6.25
	3.05	6.56
	3.20	6.87
	3.6	7.69
	4.05	8.61
	4.5	9.51
	5.0	10.51
	5.49	11.47
	5.6	11.68
	6.3	13.04
	7.62	15.52
	10.0	19.76
	11.13	21.67
101.6	3.05	7.53
	3.6	8.84
	4.05	9.90
	5.0	12.10
	5.74	13.78
	6.3	15.03
114.3	8.08	18.92
	2.6	7.28
	3.05	8.50
	3.2	8.90
	3.6	9.98
	4.0	11.05
	4.5	12.38
	5.0	13.68
	5.4	14.73
	6.02	16.33
	7.1	19.06
	8.56	22.67
	11.13	28.75
	13.49	34.05
	14.2	35.59
	20.0	47.23

Outside Diameter	Thickness	Mass per Unit Length
D (mm)	t (mm)	kg/m
139.7	4.0	13.60
	5.0	16.87
	6.3	21.04
	7.1	23.57
168.3	3.4	14.04
	4.5	18.46
	5.0	20.45
	6.3	25.56
	7.1	28.67
219.1	10.0	39.65
	3.76	20.27
	6.3	33.58
	8.18	43.22
	10.0	52.36
273	12.7	65.66
	9.27	61.24
323.9	12.7	82.81
	9.53	75.05
	10.31	80.94
	12.7	99.00
355.6	14.2	110.16
	9.53	82.62
406.4	12.7	109.09
	9.53	94.74
406.4	12.7	125.25



Stainless Steel Oval Tube



Size	Thickness (American Standard) (mm)									
	0.8	0.9	1.0	1.2	1.5	1.5A	2.0	2.5	3.0	4.0
	Thickness (British Standard) (mm)									
a x b (mm)	0.7	0.8	0.9	1.0	1.2	1.35	1.7	2.25	2.7	3.5
18.9 x 25.3	0.78	0.90	1.01	1.12	1.34	1.51	1.90	2.52	3.02	3.92
15 x 30	0.83	0.95	1.07	1.19	1.43	1.61	2.02	2.68	3.21	4.16
18 x 33	0.93	1.07	1.20	1.33	1.60	1.80	2.27	3.00	3.60	4.66
20 x 30	0.89	1.02	1.15	1.28	1.53	1.73	2.17	2.88	3.45	4.47
20 x 34.3	0.99	1.13	1.27	1.41	1.69	1.90	2.39	3.17	3.80	4.93
21 x 61	1.60	1.83	2.06	2.29	2.74	3.09	3.89	5.15	6.18	8.01
23 x 38	1.10	1.26	1.42	1.57	1.89	2.13	2.68	3.54	4.25	5.51
24.9 x 40	1.17	1.34	1.50	1.67	2.00	2.26	2.84	3.76	4.51	5.85
30 x 60	1.66	1.90	2.14	2.38	2.85	3.21	4.04	5.35	6.42	8.32
30 x 70	1.89	2.16	2.43	2.70	3.24	3.65	4.59	6.08	7.29	9.45
31 x 62	1.72	1.97	2.21	2.46	2.95	3.32	4.18	5.53	6.64	8.60
32 x 64	1.78	2.03	2.08	2.54	3.04	3.42	4.31	5.71	6.85	8.88
35 x 55	1.62	1.85	2.08	2.31	2.77	3.12	3.93	5.20	6.24	8.09
34 x 80	2.16	2.47	2.77	3.08	3.70	4.16	5.24	6.93	8.32	10.79
35 x 80	2.17	2.48	2.79	3.10	3.72	4.18	5.26	6.97	8.36	10.84
40 x 60	1.79	2.05	2.30	2.56	3.07	3.45	4.35	5.75	6.90	8.95
40 x 80	2.42	2.77	3.11	3.46	4.15	4.67	5.88	7.78	9.34	12.11
40 x 110	2.90	3.32	3.73	4.15	4.98	5.60	7.05	9.34	11.20	14.52
42 x 75	2.13	2.44	2.74	3.05	3.66	4.11	5.18	6.86	8.23	10.67
46 x 100	2.73	3.12	3.51	3.90	4.68	5.27	6.63	8.78	10.54	13.66
50 x 100	2.77	3.17	3.57	3.96	4.76	5.35	6.74	8.92	10.70	13.87
50 x 120	3.23	3.69	4.15	4.61	5.53	6.22	7.84	10.37	12.44	16.13
50 x 150	3.92	4.48	5.05	5.61	6.73	7.57	9.53	12.61	15.14	19.62
57 x 93	2.71	3.09	3.48	3.87	4.64	5.22	6.57	8.70	10.44	13.54
60 x 90	2.68	3.07	3.45	3.83	4.60	5.18	6.52	8.63	10.35	13.42
60 x 120	3.33	3.81	4.28	4.76	5.71	6.42	8.09	10.70	12.84	16.65
78 x 145	4.09	4.67	5.25	5.84	7.00	7.88	9.92	13.13	15.76	20.43
80 x 142	4.04	4.62	5.20	5.78	6.93	7.80	9.82	13.00	15.60	20.22
90 x 180	4.99	5.71	6.42	7.14	8.56	9.63	12.13	16.05	19.26	24.97
95 x 180	5.05	5.77	6.49	7.22	8.66	9.74	12.27	16.24	19.48	25.26
100 x 200	5.55	6.34	7.14	7.93	9.51	10.70	13.48	17.84	21.41	27.75

Remarks:

Can be customized according to customer requirements of non-standard size stainless steel hollow section thickness. Welcome to inquire.

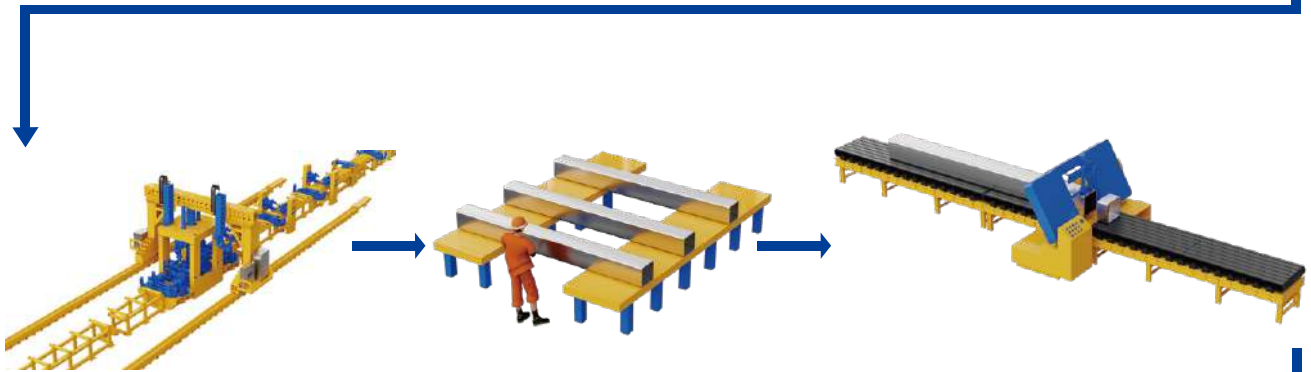
Fabrication of Hollow Steel Sections



板材開料 • Sheet cutting

板材折彎 • Sheet bending

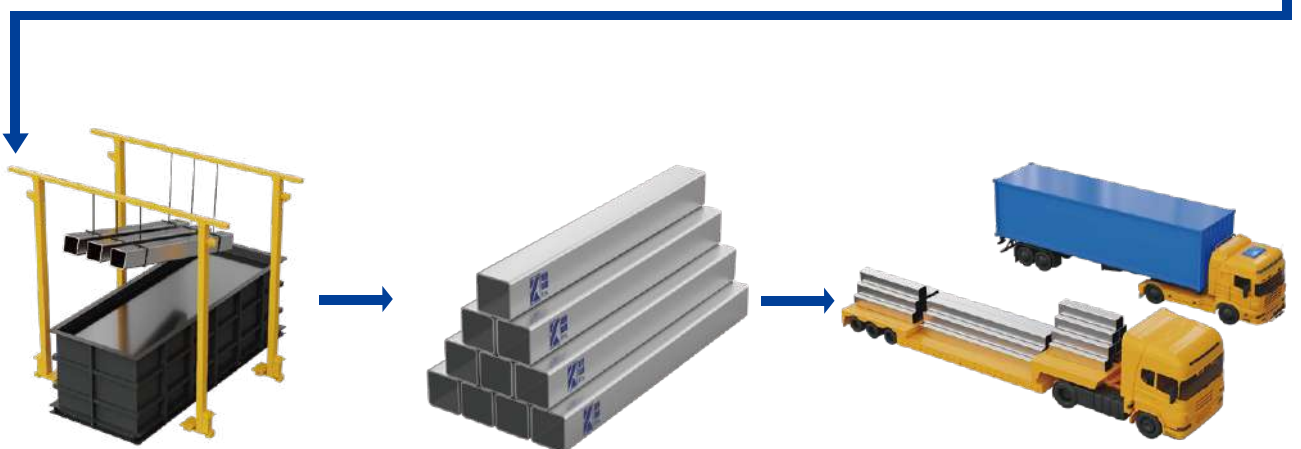
管材成型 • Tube forming



雷射焊接 • Laser welding

成品檢測修復 • Finished product inspection and repair

鋸床切割 • Sawing



清洗酸洗 • Cleaning and pickling

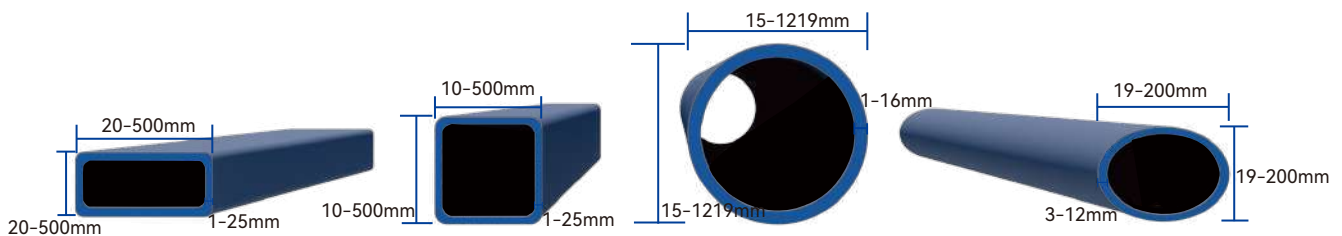
噴碼標籤 • Coding and Labeling

包裝出貨 • Packing and shipping

Size Range

We have developed a range of stainless steel/super duplex stainless steel hollow structural sections and engineered design practices, making it easier to specify CE-marked hollow structural sections that comply with the construction products regulation.

Our components are manufactured in China, so you can be assured that our products are fully traceable, sustainably sourced and manufactured, tested to the highest standards, and carry the appropriate certifications.



■ For more information, please contact us.



Surface Treatment

Surface treatment of stainless steel pipe delivery

BS EN Finish	Old BS Finish	Description
Hot Rolled		
1C	0	Hot rolled, heat treated, not descaled
1E	1	Hot rolled, heat treated, mechanically descaled
1D	1	Hot rolled, heat treated, mechanically descaled
1U	—	Hot rolled, not heat treated, not descaled
Cold Rolled		
2C	—	Cold rolled, heat treated, not descaled
2E	—	Cold rolled, heat treated, mechanically descaled
2D	2D	Cold Rolled, heat treated, pickled
2B	2B	Cold Rolled, heat treated, pickled,skin passed
2R	2A/(BA)	Cold Rolled bright annealed
2Q	—	Cold Rolled,hardened &tempered, scale free

BS EN Finish	Old BS Finish	Special Finishes Description	Typical Grit	Roughness
1G or 2G	—	Ground Grit	120	2.5~2.0
1J or 2J	3B	Brushed-Unidirectional	180	1.2~1.0
1J or 2J	4	Dull Polished-Unidirectional	240	0.6
1K or 2K	5	Satin Polished-Unidirectional	320	0.5max.
1P or 2P	7	Bright Polished -NonDirectional with a high degree of image clarity	600	0.1
1P or 2P	8	Mirror Finish -NonDirectional with a very high degree of image clarity	800	0.05
1M or 2M	—	Patterned		
2L	—	Coloured		
2W	—	Corrugated		
1S or 2S	—	Surface Coated (Metallic coatings such as tin, lead or aluminium		

Certificate Template



PEAK KONG SPECIAL STEEL

Add: Building 1, No.6, Jinhai 1st Road,
Xiegang Town, Dongguan City, Guangdong Province P.R.
China

EN 10219-2006

Hollow section structure produced by Stainless
steel material (cold formed)
Grade 1.4404 according EN 10219-2006

Structure/fabrications in accordance with EN 1090, when
supplied with 3.1 certification to EN 10204 containing
product identification details.

Information on regulated characteristics in accordance with
EN10219 for:

Elongation:
Tensile Strength:
Yield Strength:
Impact Strength:
Weldability:
Durability:

Dangerous Substances: No Performance Determined

PEAKKONG Special Steel Technology(Guangdong)Co.,Ltd

PRODUCT	Laser welding SHS		
MATERIAL LENGTH	100*100*8	LENGTH	6M
STANDARD	EN10219-1 EN15614-14	GRADE	1.4404
HEAT NO	25032528	DATE	2025/03/04

 煌
港
特
鋼
PEAK KONG
SPECIAL STEEL

UK
CA
0038

 0038



MADE IN CHINA



INSPECTION CERTIFICATE
EN10204-3.1

Add: No. 1 Building 1, No. 6 Xiegang Jinhai Road,
Xiegang Town, Dongguan City, Guangdong Province.
Tel: 0769-82869307 Fax:0769-82869201

PEAKKONG Special Steel Technology (Guangdong) Co.,Ltd

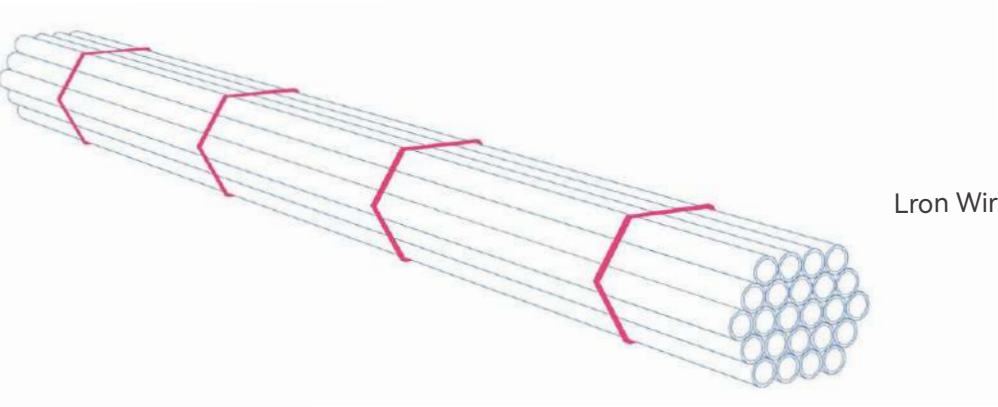
CUSTOMER	HK Huangshangyou Steel industrial limited		PRODUCT	Laser fused welding rectangle tube		CERTIFICATE NO.	20250506012																		
PURCHASER	HK Huangshangyou Steel industrial limited		CONTRACT NO.	20250219-008		DATE OF DELIVERY	2025/3/4																		
GRADE	1.4404		ORDER NO			DATE OF ISSUE	2025/3/4																		
SPECIFICATION	EN10219-1 EN15614-14		SOLUTION TREATED AND PICKLING	Industrial surface		SGS ISO9001 CERTIFICATE NUMBER	CN23/00005883																		
order number	SAMPLE NO	HEAT NO.	MATERIAL DESCRIPTION	Qty	KG WEIGHT	CHEMICAL COMPOSITION (HEAT ANALYSIS) %																			
			DIMENSION		C	Si	Mn	P	S	Cr	Ni	Mo	N	Ti											
1	250503-012	25032528	100*100*8mm*6m	50	6870.00	0.024	0.50	1.15	0.023	0.004	16.54	10.05	2.03	0.069											
C TOTAL				50	6870.00																				
SAMPLE NO	TENSILE TEST			BEND	IMPACT TEST	INTERGRANULAR CORROSION TEST																			
	Tensile Strength (T.S.)	Yield Strength (Y.S.)	Elongation (EL.)															BARDNESS							
																			BEND	Direction	temperature	ABSORBED ENERGY (J)			
																						1	2	3	AVG
1	250503-012	606	281	61	/	/																			
REMARKS			1.THE PRODUCTS HAVE PASSED THE ISO9001 QUALITY CERTIFICATION LICENSE 2.WE HEREBY CERTIFY THE ABOVE STATEMENT TO BE TRUE AND CORRECT IN EVERY DETAIL 3.The material is free From Radioactive Contamination 4.Dimension Control. Visual Inspection Acc.To EN10219-1 & EN15614-14																						
NOTES			EL: (Elongation). Y.S. : (Yield Strength). T.S: (Tensile Strength). A.E AVE.																						



Processing Services

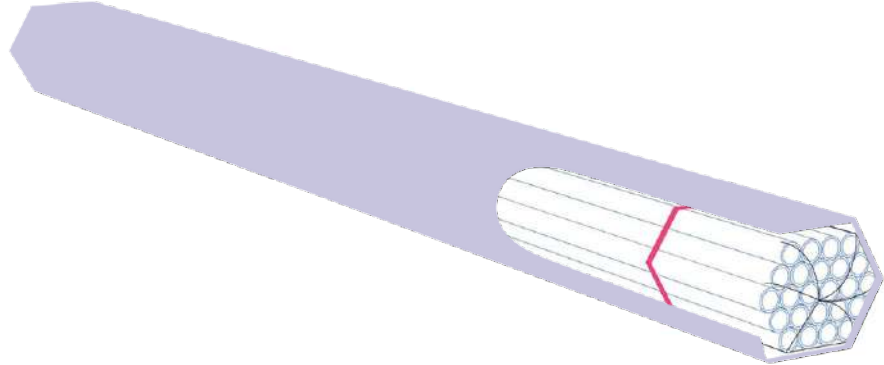
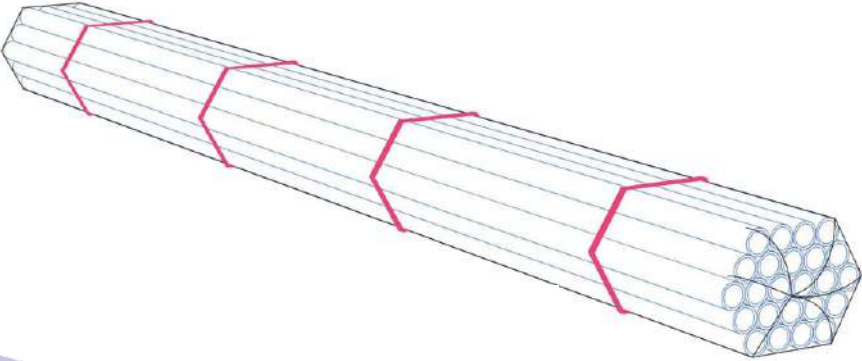


Packaging/Shipping



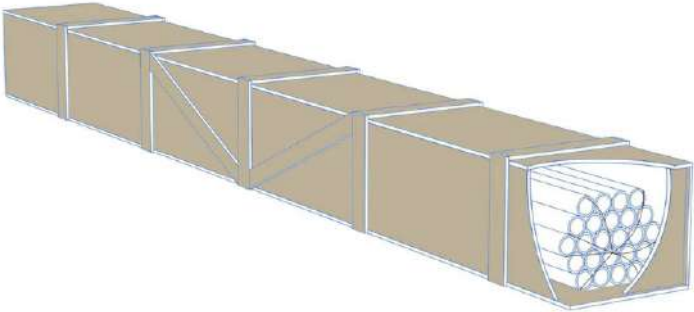
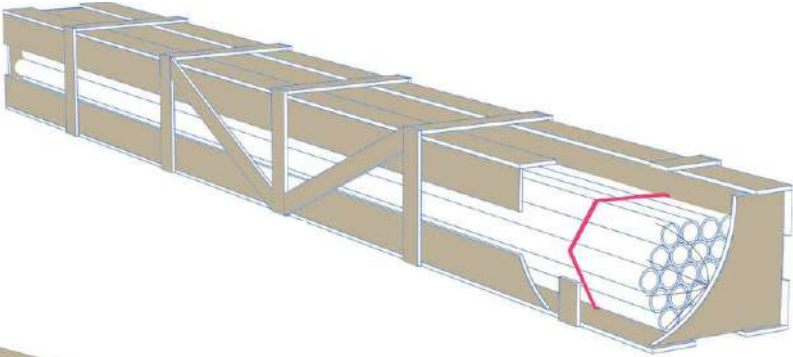
Lron Wire or PP Rope Packaging

Polyethylene Film Packaging



Bubble Film Packaging

Wooden Frame Packaging



Wooden Box Packaging

European Standard EN10088-2

Stainless steels-Part 2:Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes

Steel Designation Name	Number	Product form	Thickness	0.2%- Proof Strength	1%- Proof Strength	Tensile Strength	Elongation after Fracture		Impact Energy(ISO-V)		Resistance to Intergranular Corrosion	
			max.(mm)	min.(MPa)	min.(MPa)	MPa	A<3mm	A≥3mm	KV ₂ >10mm		in the Delivery Condition	in the Sensitized Condition
							min.(%)	min.(%)	min.(J)(long.)	min.(J)(tr.)		
X2CrNi18-9	1.4307	C	8	220	250	520~700			—	—	Yes	Yes
		H	13.5	200	240	520~700	45	45	100	60		
		P	75	200	240	500~700			100	60		
X2CrNiN18-10	1.4311	C	8	290	320				—	—	Yes	Yes
		H	13.5	270	310	550~750	40	40	100	60		
		P	75	270	310				100	60		
X5CrNi18-10	1.4301	C	8	230	260	540~750			—	—	Yes	No
		H	13.5	210	250	520~720	45	45	100	60		
		P	75	210	250	520~720			100	60		
X2CrNi19-11	1.4306	C	8	220	250	520~700			—	—	Yes	Yes
		H	13.5	200	240	520~700	45	45	100	60		
		P	75	200	240	500~700			100	60		
X2CrNiMo N17-11-2	1.4406	C	8	300	330				—	—	Yes	Yes
		H	13.5	280	320	580~780	40	40	100	60		
		P	75	280	320				100	60		
X2CrNiMo 17-12-2	1.4404	C	8	240	270	530~680	40	40	—	—	Yes	Yes
		H	13.5	220	260	530~680	40	40	100	60		
		P	75	220	260	520~670	45	45	100	60		
X5CrNiMo 17-12-2	1.4401	C	8	240	270	530~680	40	40	—	—	Yes	No
		H	13.5	220	260	530~680	40	40	100	60		
		P	75	220	260	520~670	45	45	100	60		
X6CrNiMo Ti17-12-2	1.4571	C	8	240	270	540~690			—	—	Yes	Yes
		H	13.5	220	260	540~690	40	40	100	60		
		P	75	220	260	520~670			100	60		
X2CrNiMo 17-12-3	1.4432	C	8	240	270	550~700	40	40	—	—	Yes	Yes
		H	13.5	220	260	550~700	40	40	100	60		
		P	75	220	260	520~670	45	45	100	60		
X2CrNiMo 18-14-3	1.4435	C	8	240	270	550~700	40	40	—	—	Yes	Yes
		H	13.5	220	260	550~700	40	40	100	60		
		P	75	220	260	520~670	45	45	100	60		

European Standard EN10088-2

Stainless steels-Part 2:Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes

Steel Designation Name	Number	Product form	Thickness	0.2%-Proof Strength	1%-Proof Strength	Tensile Strength	Elongation after Fracture		Impact Energy(ISO-V)		Resistance to Intergranular Corrosion	
			max.(mm)	min.(MPa)	min.(MPa)	MPa	A<3mm	A≥3mm	KV ₂ >10mm		in the Delivery Condition	in the Sensitized Condition
							min.(%)	min.(%)	min.(J)(long.)	min.(J)(tr.)		
X5CrNiN19-9	1.4315	C	8	290	320	500~750	40	40	100	60	Yes	No
		H	13.5	270	310							
		P	75	270	310							
X12CrMnNi N17-7-5	1.4372	C	8	350	380	680~880	45	45	—	—	Yes	No
		H	13.5	330	370		45	45	100	60		
		P	75	330	370		40	40	100	60		
X3CrNiMo 17-13-3	1.4436	C	8	240	270	550~700	40	40	—	—	Yes	No
		H	13.5	220	260	550~700			100	60		
		P	75	220	260	530~730			100	60		
X2CrNiMo N17-13-3	1.4429	C	8	300	330	580~780	35	35	—	—	Yes	Yes
		H	13.5	280	320		35	35	100	60		
		P	75	280	320		40	40	100	60		

C=cold rolled strip; H=hot rolled strip; P=hot rolled plate.

Steel Designation Name	Number	Chemical Composition % by mass										
		C	Si	Mn	P	S	Cr	Mo	Ni	N	Cu	Others
X2CrNi18-9	1.4307	0.030	1.00	2.00	0.045	0.015	17.5~19.5	—	8.0~10.5	0.10	—	—
X2CrNi18-10	1.4311	0.030	1.00	2.00	0.045	0.015	17.5~19.5	—	8.5~11.5	0.12~0.22	—	—
X5CrNi18-10	1.4301	0.07	1.00	2.00	0.045	0.015	17.5~19.5	—	8.0~10.5	0.10	—	—
X2CrNi19-11	1.4306	0.030	1.00	2.00	0.045	0.015	18.0~20.0	—	10.0~12.0	0.10	—	—
X2CrNiMoN17-11-2	1.4406	0.030	1.00	2.00	0.045	0.015	16.5~18.5	2.00~2.50	10.0~12.5	0.12~0.22	—	—
X2CrNiMo17-12-2	1.4404	0.030	1.00	2.00	0.045	0.015	16.5~18.5	2.00~2.50	10.0~13.0	0.10	—	—
X5CrNiMo17-12-2	1.4401	0.07	1.00	2.00	0.045	0.015	16.5~18.5	2.00~2.50	10.0~13.0	0.10	—	—
X6CrNiMoTi17-12-2	1.4571	0.08	1.00	2.00	0.045	0.015	16.5~18.5	2.00~2.50	10.5~13.5	—	—	Ti:5xC~0.70
X2CrNiMo17-12-3	1.4432	0.030	1.00	2.00	0.045	0.015	16.5~18.5	2.50~3.00	10.5~13.0	0.10	—	—
X2CrNiMo18-14-3	1.4435	0.030	1.00	2.00	0.045	0.015	17.0~19.0	2.50~3.00	12.5~15.0	0.10	—	—
X5CrNi19-9	1.4315	0.06	1.00	2.00	0.045	0.015	18.0~20.0	—	8.0~11.0	0.12~0.22	—	—
X12CrMnNiN17-7-5	1.4372	0.15	1.00	5.5~7.5	0.045	0.015	16.0~18.0	—	3.5~5.5	0.05~0.25	—	—
X3CrNiMo17-13-3	1.4436	0.05	1.00	2.00	0.045	0.015	16.5~18.5	2.50~3.00	10.5~13.0	0.10	—	—
X2CrNiMoN17-13-3	1.4429	0.030	1.00	2.00	0.045	0.015	16.5~18.5	2.50~3.00	11.0~14.0	0.12~0.22	—	—

European Standard EN10088-2

Stainless steels–Part 2:Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes

Steel Designation Name	Number	Heat Treatment Condition	Minimum 0.2%-Proof Strength (MPa)										Minimum 1%-Proof Strength (MPa)									
			at a temperature of (°C)																			
			100	150	200	250	300	350	400	450	500	550	100	150	200	250	300	350	400	450	500	550
X2CrNi18-9	1.4307	+AT	147	132	118	108	100	94	89	85	81	80	181	162	147	137	127	121	116	112	109	108
X2CrNiN18-10	1.4311	+AT	205	175	157	145	136	130	125	121	119	118	240	210	187	175	167	161	156	152	149	147
X5CrNi18-10	1.4301	+AT	157	142	127	118	110	104	98	95	92	90	191	172	157	145	135	129	125	122	120	120
X2CrNi19-11	1.4306	+AT	147	132	118	108	100	94	89	85	81	80	181	162	147	137	127	121	116	112	109	108
X2CrNiMoN17-11-2	1.4406	+AT	211	185	167	155	145	140	135	131	128	127	246	218	198	183	175	169	164	160	158	157
X2CrNiMo17-12-2	1.4404	+AT	166	152	137	127	118	113	108	103	100	98	199	181	167	157	145	139	135	130	128	127
X5CrNiMo17-12-2	1.4401	+AT	177	162	147	137	127	120	115	112	110	108	211	191	177	167	156	150	144	141	139	137
X6CrNiMoTi17-12-2	1.4571	+AT	185	177	167	157	145	140	135	131	129	127	218	206	196	186	175	169	164	160	158	157
X2CrNiMo17-12-3	1.4432	+AT	166	152	137	127	118	113	108	103	100	98	199	181	167	157	145	139	135	130	128	127
X2CrNiMo18-14-3	1.4435	+AT	165	150	137	127	119	113	108	103	100	98	200	180	165	153	145	139	135	130	128	127
X5CrNiN19-9	1.4315	+AT	205	175	157	145	136	130	125	121	119	118	240	210	187	175	167	161	156	152	149	147
X12CrMnNiN17-7-5	1.4372	+AT	295	260	230	220	205	185	—	—	—	—	325	295	265	250	230	205	—	—	—	—
X3CrNiMo17-13-3	1.4436	+AT	177	162	147	137	127	120	115	112	110	108	211	191	177	167	156	150	144	141	139	137
X2CrNiMoN17-13-3	1.4429	+AT	211	185	167	155	145	140	135	131	129	127	246	218	198	183	175	169	164	160	158	157

Stainless Steel Grade Comparison

British	French	German	Italian	Japanese	Swedish	USA
304S21	Z12CN17.08	1.4310	X12CrNi 17 07	SUS301	14 23 31	301
304S31				SUS302	14 23 32	302
304S15 304S16	Z8CN18.09	1.4301	X5CrNi 18 10	SUS301	14 23 33	304
304S11	Z2CN18.10	1.4306	X2CrNi 18 11	SUS304L	14 23 52	304L
305S19	Z8CN18.12		X8CrNi 18 12	SUS305		305
309S24	Z15CN24.13		X16CrNi 23 14	SUS309		309
310S24	Z12CN25.20	1.4845	Z22CrNi 25 20	SUS310S	14 23 61	310
315S16					14 23 40	
316S31 316S33	Z6CND17.11	1.4401 1.4436	X8CrNiMo 17 13	SUS316	14 23 43 14 23 47	316
316S11 316S13	Z2CND17.12	1.4404 1.4435	X2CrNiMo 17 12	SUS316L	14 23 53 14 23 48	316L
317S12	Z2CND19.15	1.4435	X2CrNiMo 18 16	SUS317L	14 23 67	317L
317S16		1.4436		SUS317	14 23 66	317
320S31 320S33	Z8CND17.12	1.4571 1.4573			14 23 50	
321S31	Z6CNT18.12	1.4541	X6CrNiTi 18 11	SUS321	14 23 37	321
347S31	Z6CNNb18.11	1.4558	X6CrNiNb 18 11 X8CrNiNb 18 11	SUS347	14 23 38	347
403S17	Z6C13	1.4000	X6Cr13	SUS403	14 23 01	403
405S17	Z6CA13	1.4002	Z6CrA1 13	SUS405		405
409S19		1.4512				409
430S17	Z8C17	1.4016	X8Cr 17	SUS430	14 23 20	430
434S17	Z8CD17.01	1.4113	X8CrMo 17	SUS434	14 23 25	434
410S21	Z12C13	1.4006 1.4024	X12Cr 13	SUS410	13 23 02	410
410S45	Z30C13		X30Cr 13	SUS420JS	14 23 04	420



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