

BAR & ROD

Stainless Steel Catalogue

DaxunAlloy



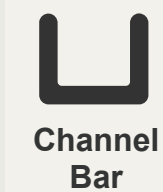
Channel Bar

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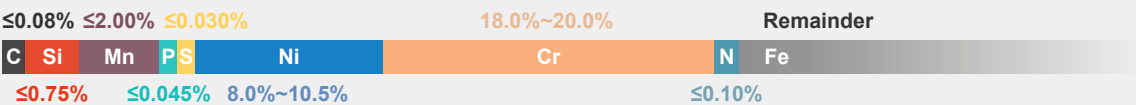


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Main Grades of Stainless Steel Bar & Rod

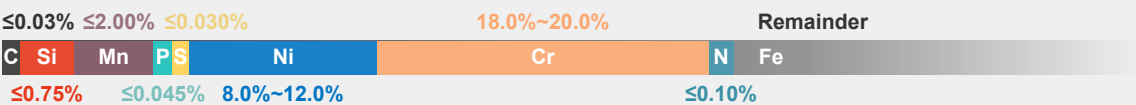
304

AISI304, SUS304, S30400, 1.4301



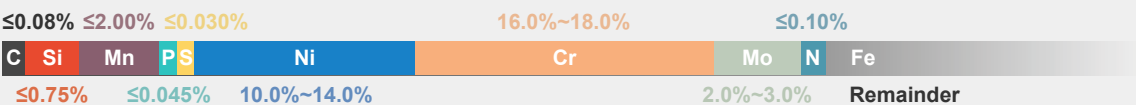
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AISI304L, SUS304L, S30403, 1.4306



316

AISI316, SUS316, S31600, 1.4401



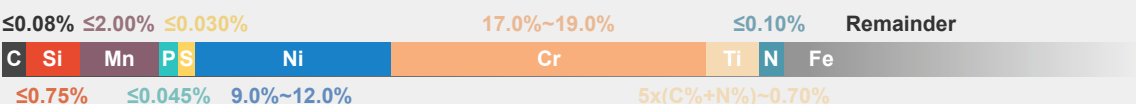
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AISI316L, SUS316L, S31603, 1.4404



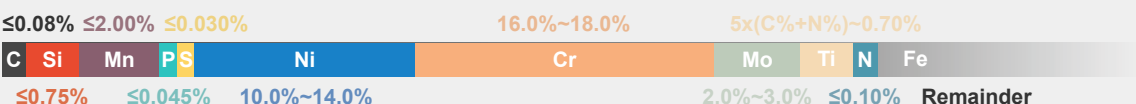
321

AISI321, SUS321, S32100, 1.4541



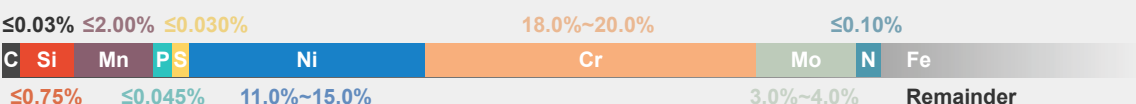
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AISI316Ti, SUS316Ti, S31635, 1.4571



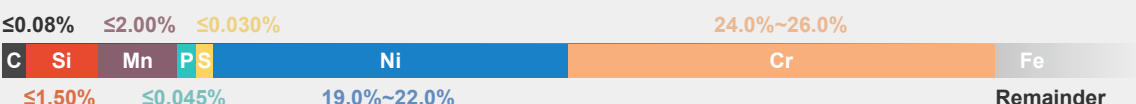
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AISI317L, SUS317L, S31726, 1.4438



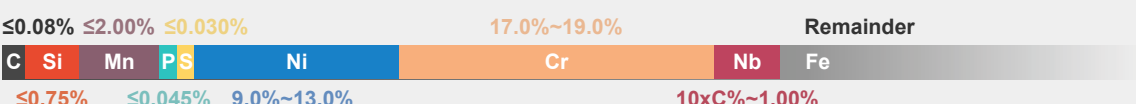
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AISI310S, SUS310S, S31008, 1.4845



347

AISI347, SUS347, S34700, 1.4550

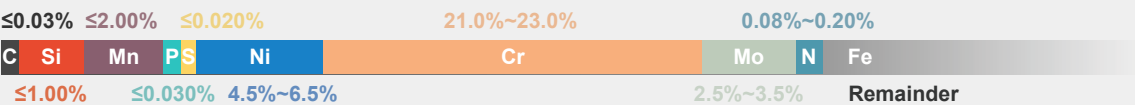


Main Grades of Stainless Steel Bar & Rod

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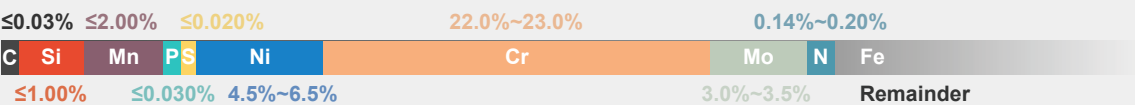
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F51, SUS329J3L, 1.4462



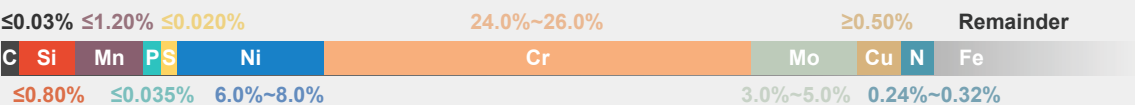
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2205, SUS329J3L, F51, 1.4462



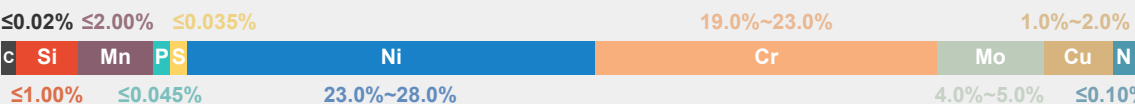
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2507, NAS74N, F53, 1.4410



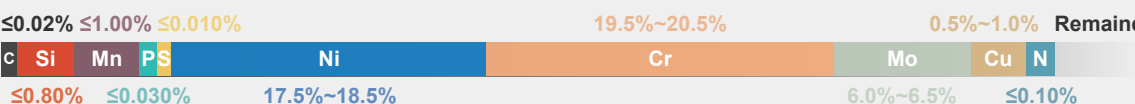
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AISI904L, SUS904L, N08904, 1.4539



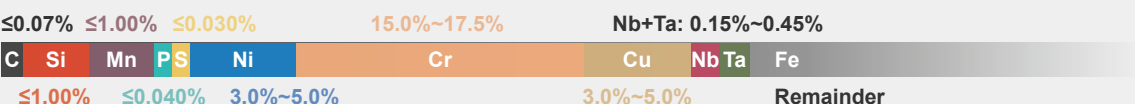
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AISI254SMo, SUS254SMo, S31254, 1.4547



17-4PH

AISI630, SUS630, S17400, 1.4542



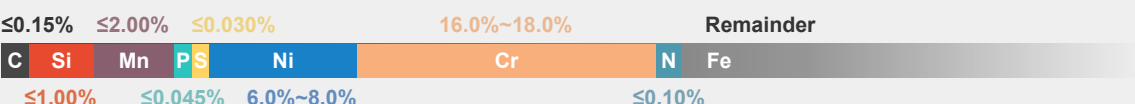
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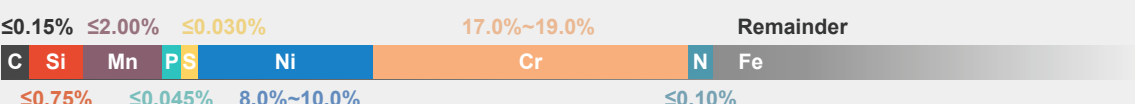
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AISI301, SUS301, S30100, 1.4319



302

AISI302, SUS302, S30200, 1.4318

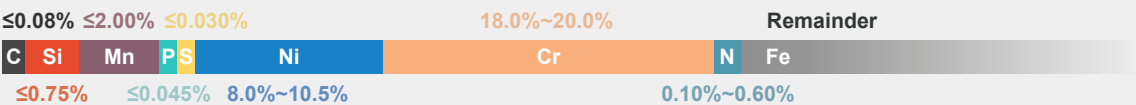


Main Grades of Stainless Steel Bar & Rod

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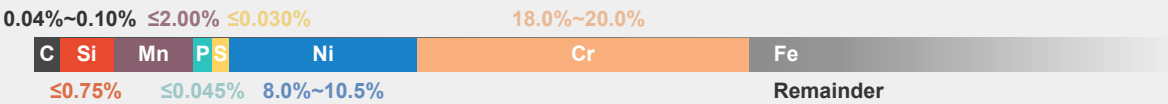
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AISI304N, SUS304N1, S30451, 1.4315



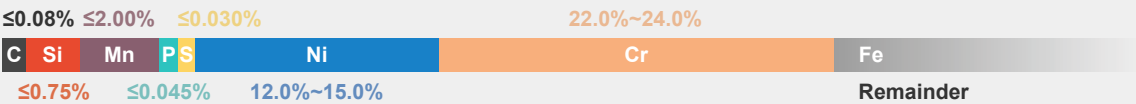
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AISI304H, SUS304, S30409, 1.4948



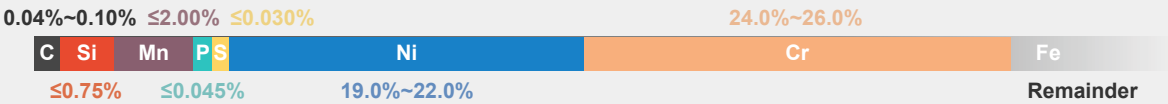
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AISI309S, SUS309S, S30908, 1.4833



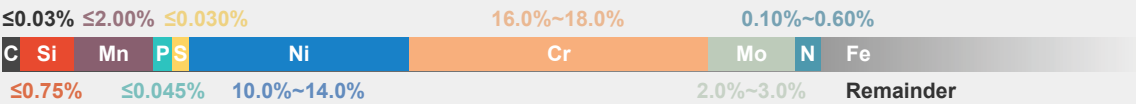
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AISI310H, SUS310H, S31009, 1.4845



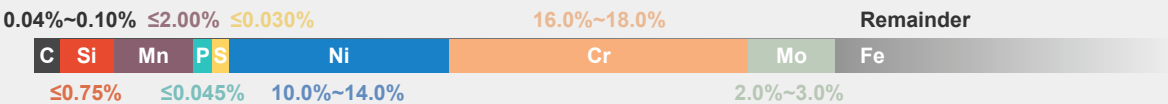
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AISI316LN, SUS316LN1, S31653, 1.4429



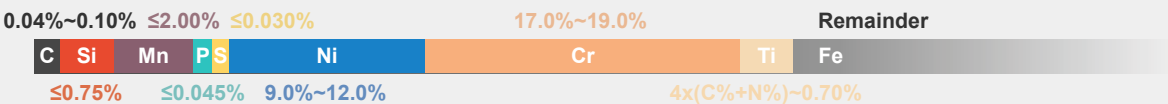
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AISI316H, SUS316H, S31609, 1.4436



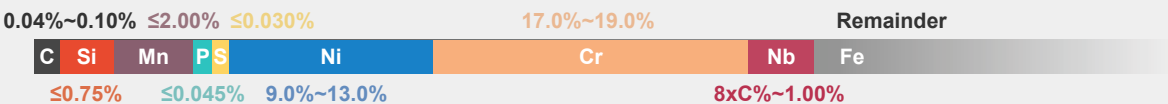
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AISI321H, SUS321H, S32109, 1.4541



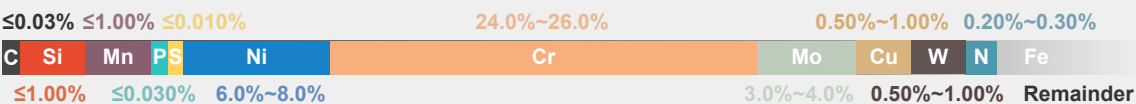
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AISI347H, SUS347H, S34709, 1.4912



S32760

F55, 1.4501

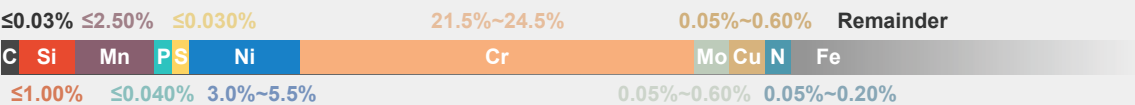


Main Grades of Stainless Steel Bar & Rod

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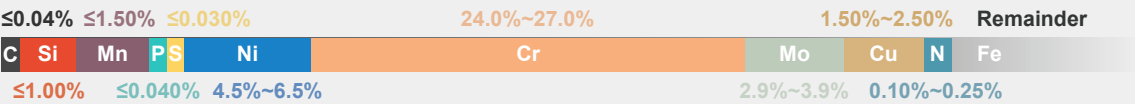
S32304

2304, DP11, 1.4362



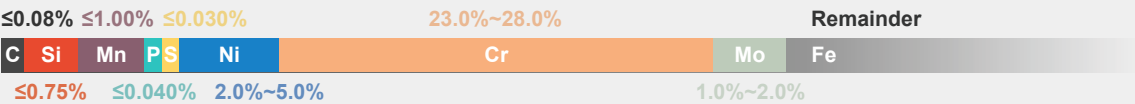
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255, SUS329J4L, QSA2505, 1.4507



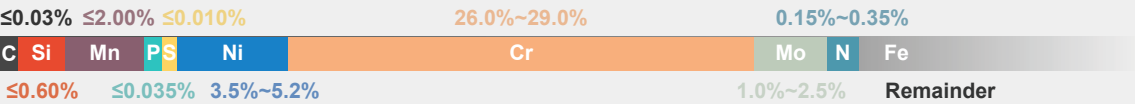
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329, SUS329J1, 1.4477



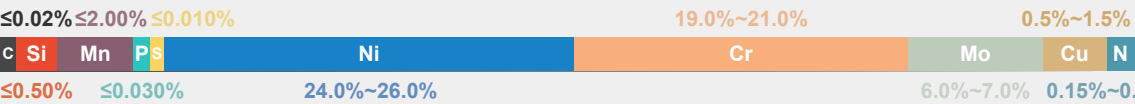
S32950

F52



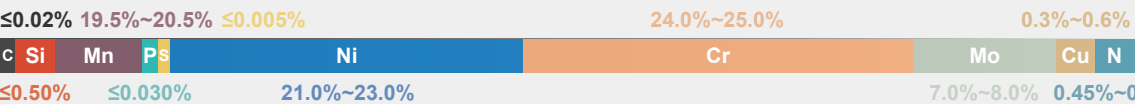
926

AISI926, SUS926, N08926, 1.4529



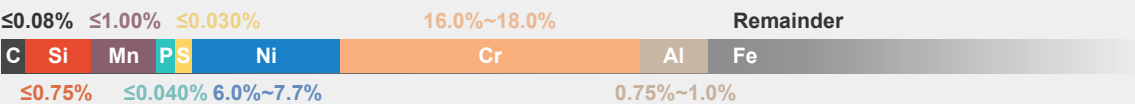
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AISI654SMo, SUS654SMo, S32654, 1.4652



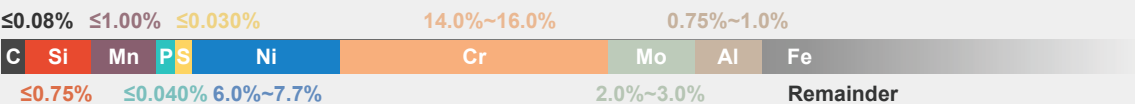
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AISI631, SUS631, S17700, 1.4568



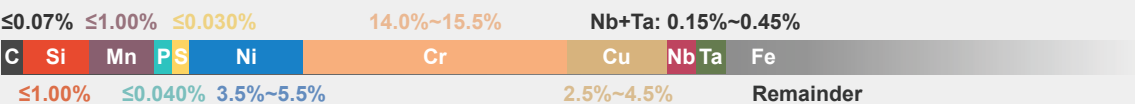
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AISI630, SUS630, S15700, 1.4542



15-5PH

S15500



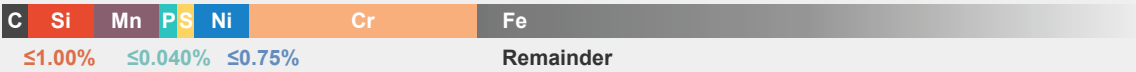
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410

AISI410, SUS410, S41000, 1.4006

0.08%~0.15% ≤1.00% ≤0.030% 11.5%~13.5%



410S

AISI410S, SUS410S, S41008, 1.4000

≤0.08% ≤1.00% ≤0.030% 11.5%~13.5%



420

AISI420, SUS420J1, SUS420J2, 1.4021, 1.4028, S42000

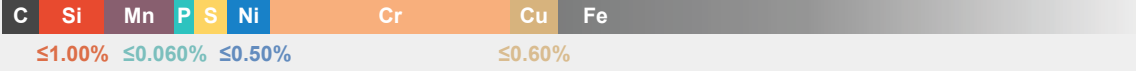
≥0.15% ≤1.00% ≤0.030% Remainder



420F

AISI420F, SUS420F, S42020, 1.4029

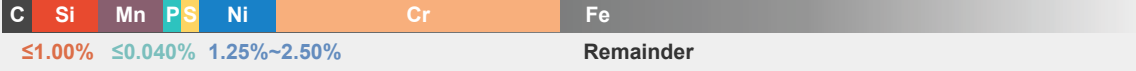
0.30%~0.40% ≤1.50% 0.20%~0.34% 12.5%~14.0% Remainder



431

AISI431, SUS431, S43100, 1.4057

≤0.20% ≤1.00% ≤0.030% 15.0%~17.0%



440A

AISI440A, SUS440A, S44002

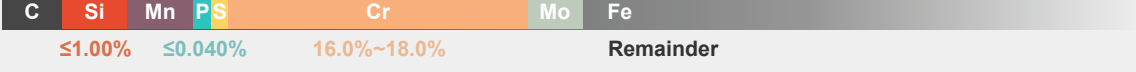
0.60%~0.75% ≤1.00% ≤0.030% ≤0.75%



440B

AISI440B, SUS440B, S44003, 1.4112

0.75%~0.95% ≤1.00% ≤0.030% ≤0.75%



440C

AISI440C, SUS440C, S44004, 1.4125

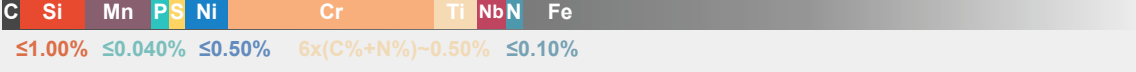
0.95%~1.20% ≤1.00% ≤0.030% ≤0.75%



409(L)

AISI409, AISI409L, SUH409, SUH409L, S40900, 1.4512

≤0.03% ≤1.00% ≤0.020% 10.5%~11.7% ≤0.50% Remainder



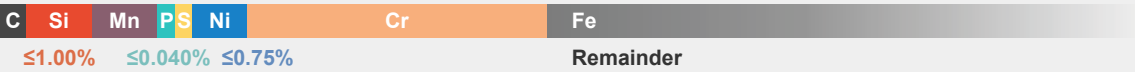
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430

AISI430, SUS430, S43000, 1.4016

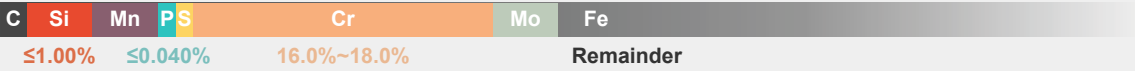
≤0.12% ≤1.00% ≤0.030% 16.0%~18.0%



434

AISI434, SUS434, S43400, 1.4113

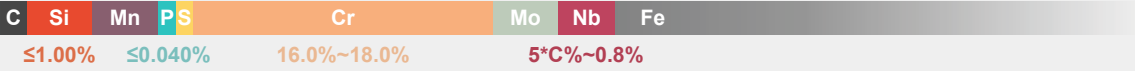
≤0.12% ≤1.00% ≤0.030% 0.75%~1.25%



436

AISI436, SUS436, S43600, 1.4536

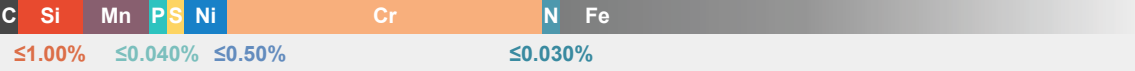
≤0.12% ≤1.00% ≤0.030% 0.75%~1.25% Remainder



439

AISI439, SUS430LX, S43035, 1.4510

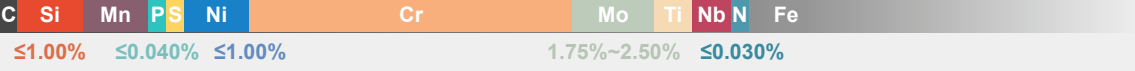
≤0.03% ≤1.00% ≤0.030% 17.0%~19.0% Remainder



444

AISI444, SUS444, S44400, 1.4521

≤0.25% ≤1.00% ≤0.030% 17.5%~19.5% Ti+Nb: [0.20+4x(C%+N%)]~0.80% Remainder



Main Grades of Stainless Steel Bar & Rod

DAXUN



Channel
Bar

Channel Bar





Specifications

- A. Delivery State: Hot Rolled
- Dimensions: (mm)
- Thickness: 4mm, 5mm, 6mm, 7mm
- Height: 40mm, 50mm, 60mm
- Width: 80mm, 100mm, 120mm
- B. Delivery State: Welded
- Dimensions: (mm)
- Thickness: 3mm, 4mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 12mm
- Height: 25mm, 30mm, 40mm, 50mm, 60mm, 70mm, 75mm, 80mm, 100mm
- Width: 50mm -245mm
- Tags: U Channel Bar, C Channel Bar

Standards

ASTM A276, ASTM A484M, DIN 1028, EN10279, EN10225, GB4227

Features

Anti-corrosion (the degree is susceptible to the alloys contained), heat-resistance, good cold and hot working properties, good toughness, good comprehensive performances and wide application.

Introduction

Stainless steel channel is a stainless steel long product with U-shaped cross section. In addition to stainless steel U-shaped channel, Daxun also provides stainless steel C-shaped channel, stainless steel I-shaped steel (also known as H-shaped channel) for you to choose. These channels are all structural steels and are widely used for structural supports that require higher tensile strength and good corrosion resistance. Stainless steel channels have durable dull grained rolled surface, sandblasted surface, brushed surface or even polished surface, which can be selected according to your requirements. For sizes below 60 x 120 x 7 mm, it is hot rolled channel by default, and for sizes above 60 x 120 x 7 mm, it is laser fused or press bent channel. The SS channels supplied by Civmats are available in a variety of sizes and various grades. The main grades are 304(L), 316(L), 310S, 2205 , and the main standard is ASTM A 276. In addition to ASTM standards, we can also produce according to JIS, DIN, GOST, GB standards according to your requirements. The length can be customized or according to the export standard length of 5.8 meters or 6 meters.

Applications

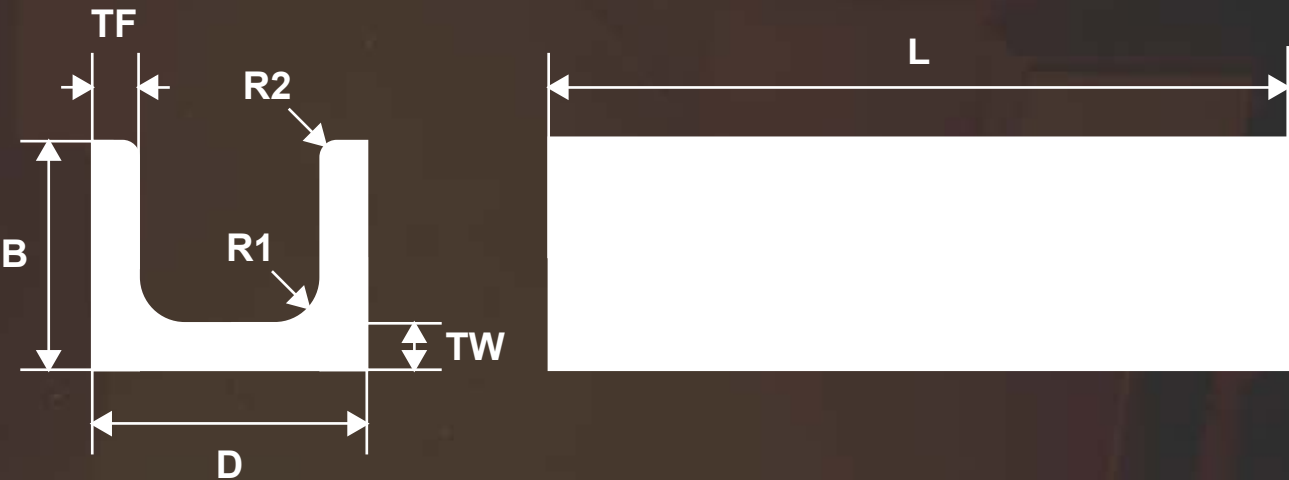
Home appliances, electric appliances, construction materials, medical equipment, auto parts, petroleum, chemical application, agricultural irrigation, edible oil refinery factories, paper plants, shipyard, nuclear power plant etc.



Manufacturing Process

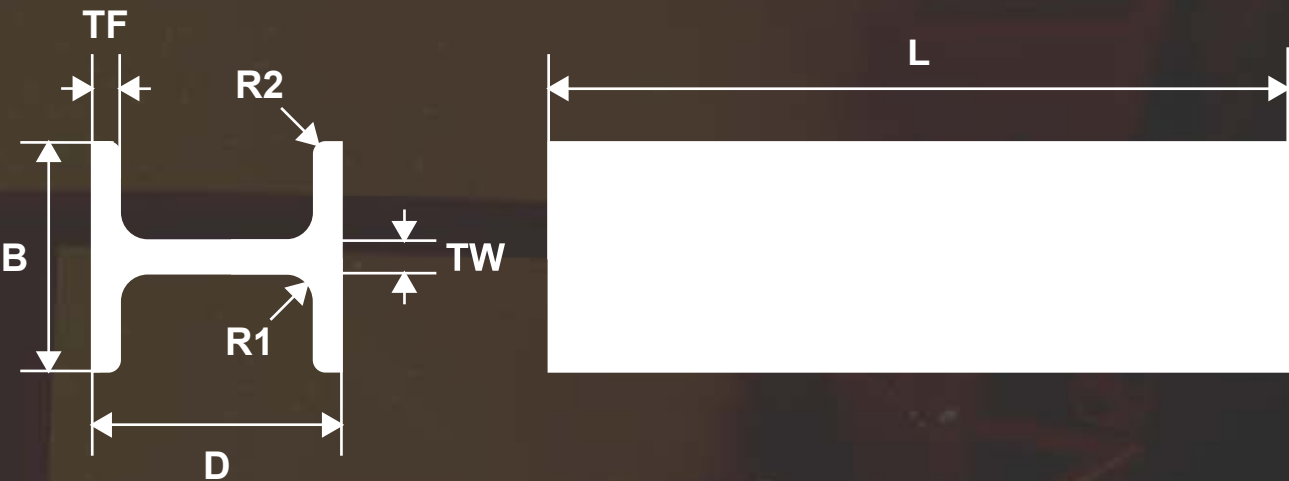


Drawing & Formula



Formula:

$$m = [D \times TW + 2 \times TF \times (B - TW) + 0.349 \times (R1 \times R1 - R2 \times R2)] \times L (m) \times 0.00793$$



Formula:

$$m = [D \times TW + 2 \times TF \times (B - TW) + 0.615 \times (R1 \times R1 - R2 \times R2)] \times L (m) \times 0.00793$$

* For 316, 316L, 310S, 309S, etc., ratio=0.00798. For 400 series stainless steel, ratio=0.00775

D = Flange Depth, B = Flange Width, TW = Web Thickness, TF = Flange Thickness, R1 = Radius R1, R2 = Radius R2

Size & Tolerance

Size Range

Hot-rolled U channel bar					
Section	Designation	Mass	Section	Designation	Mass
UPE80	80*50*4.5*8	8.89	UPN65	65*42*5*7	7.09
UPE100	100*55*5*8.5	10.9	UPN80	80*45*6*8	8.64
UPE120	120*60*5.5*9	13.2	UPN100	100*50*6*8.5	10.6
UPE140	140*65*6*9.5	15.7	UPN120	120*55*7*9	13.4
UPE160	160*70*6.5*10	18.6	UPN140	140*60*7*10	16
UPE180	180*75*7*10.5	21.6	UPN160	160*65*7.5*10.5	18.8
UPE200	200*80*7.5*11	24.8	UPN180	180*70*8*11	22
UPE220	220*85*8*12	28.8	UPN200	200*75*8.5*11.5	25.3
UPE240	240*90*8.5*13	33.4	UPN220	220*80*9*12.5	29.4
UPE270	270*95*9*14	38.8	UPN240	240*85*9.5*13	33.2
UPE300	300*100*9.5*15	44.5	UPN260	260*90*10*14	37.9
UPE330	330*105*11*16	53.3	UPN280	280*95*10*15	41.8
UPE360	360*110*12*17	61.2	UPN300	300*100*10*16	46.2
UPE400	400*115*13.5*18	72.3	UPN320	320*100*14*17.5	59.5
UPN30	30*33*5*7	4.27	UPN350	350*100*14*16	60.6
UPN40	40*35*5*7	4.87	UPN380	380*102*13.5*16	63.1
UPN50	50*38*5*7	5.59	UPN400	400*110*14*18	71.8
Hot-rolled H beam bar					
Section	Designation	Mass	Section	Designation	Mass
HEA100	96*100*5*8	16.7	HEB100	100*100*6*10	20.4
HEA120	114*120*5*8	19.9	HEB120	120*120*6.5*11	26.7
HEA140	133*140*5.5*8.5	24.7	HEB140	140*140*7*12	33.7
HEA160	152*160*6*9	30.4	HEB160	160*160*8*13	42.6
HEA180	171*180*6*9.5	35.5	HEB180	180*180*8.5*14	51.2
HEA200	190*200*6.5*10	42.3	HEB200	200*200*9*15	61.3
HEA220	210*220*7*11	50.5	HEB220	220*220*9.5*16	71.5
HEA240	230*240*7.5*12	60.3	HEB240	240*240*10*17	83.2
HEA260	250*260*7.5*12.5	68.2	HEB260	260*260*10*17.5	93
HEA280	270*280*8*13	76.4	HEB280	280*280*10.5*18	103
HEA300	290*300*8.5*14	88.3	HEB300	300*300*11*19	117
HEA320	310*300*9*15.5	97.6	HEB320	320*300*11.5*20.5	127

HEA340	330*300*9.5*16.5	105	HEB340	340*300*12*21.5	134
HEA360	350*300*10*17.5	112	HEB360	360*300*12.5*22.5	142
HEA400	390*300*11*19	125	HEB400	400*300*13.5*24	155
HEA450	440*300*11.5*21	140	HEB450	450*300*14*26	171
HEA500	490*300*12*23	155	HEB500	500*300*14.5*28	187
HEA550	540*300*12.5*24	166	HEB550	550*300*15*29	199
HEA600	590*300*13*25	178	HEB600	600*300*15.5*30	212
HEA650	640*300*13.5*26	190	HEB650	650*300*16*31	225
HEA700	690*300*14.5*27	204	HEB700	700*300*17*32	241
HEA800	790*300*15*28	224	HEB800	800*300*17.5*33	262
HEA900	890*300*16*30	252	HEB900	900*300*18.5*35	291
HEA1000	990*300*16.5*31	272	HEB1000	1000*300*19*36	314
INP80	80*42*3.9*5.9	5.94	IPE120	120*64*4.4*6.3	10.4
INP100	100*50*4.5*6.8	8.34	IPE140	140*73*4.7*6.9	12.9
INP120	120*58*5.1*7.7	11.1	IPE160	160*82*5*7.4	15.8
INP140	140*66*5.7*8.6	14.3	IPE180	180*91*5.3*8	18.8
INP160	160*74*6.3*9.5	17.9	IPE200	200*100*5.6*8.5	22.4
INP180	180*82*6.9*10.4	21.9	IPE220	220*110*5.9*9.2	26.2
INP200	200*90*7.5*11.3	26.2	IPE240	240*120*6.2*9.8	30.7
INP220	220*98*8.1*11.2	31.1	IPE270	270*135*6.6*10.2	36.1
INP240	240*106*8.7*13.1	36.2	IPE300	300*150*7.1*10.7	42.2
INP260	260*113*9.4*14.1	41.9	IPE330	330*160*7.5*11.5	49.1
INP280	280*119*10.1*15.2	47.9	IPE360	360*170*8*12.7	57.1
INP300	300*125*10.8*16.2	54.2	IPE400	400*180*8.6*13.5	66.3
INP320	320*131*11.5*17.3	61	IPE450	450*190*9.4*14.6	77.6
INP340	340*137*12.2*18.3	68	IPE500	500*200*10.2*16	90.7
INP360	360*143*13*19.5	76.1	IPE550	550*210*11.1*17.2	106
INP380	380*149*13.7*20.5	84	IPE600	600*220*12*19	122
INP400	400*155*14.4*21.6	92.4	IPE750*137	753*263*11*17	137
INP425	425*163*15.3*21	104	IPE750*146	756*263.5*11.5*18.5	146
INP450	450*170*16.2*24.3	115	IPE750*160	761*264*12*21	160
INP475	475*178*17.1*26	128	IPE750*172	764*265*13*22.5	172
INP500	500*185*18*27	141	IPE750*183	768*265.5*13.5*24.5	183
INP550	550*200*19*30	166	IPE750*195	772*266*14*26.5	195
INP600	600*215*21.6*32.4	199	IPE750*207	775*267*15*28	207
IPE80	80*46*3.8*5.2	6	IPE750*219	778*268*16*29.5	219
IPE100	100*55*4.1*5.7	8.1			



Size & Tolerance

Size & Tolerance



Tolerance

Specified Size of Stainless Channels, mm	Size Tolerances, Over and Under, mm.				
	Flange Depth	Flange Width	Web Thickness for Thickness Given		Out-of-Square B of Either Flange, mm/ mm of Flange Width
			To 5.00mm	Over 5.00mm	
To 38.00mm, incl.	1.20	1.20	0.41	0.60	1.20
Over 38.00 to 75.00mm, excl.	2.40	2.40	0.60	0.80	1.20

Delivery State

Delivery State Choice	Surface Condition
Hot Rolled	Pickled
	Sand Blasting
Welding	Pickled
	Sand Blasting
Press Bending	Pickled
	Sand Blasting
	No.1 Finish
Note: 1. If you require different deliver state than the above listed, kindly confirm with us. 2. In case of any enquiry or order, please kindly let us know any extra requirement not indicated here.	



FAQ

Q: What is Your MOQ (Minimum Order Quantity)?
A: Our MOQ is 1 ton. Larger quantity, lower price.

Q: How about the delivery time?
A: Normally 25 days, but it is also influenced by your specific requirements or the order quantity.

Q: Is sample available?
A: Yes. For small piece, free sample of common size is available, but the freight will be yours to bear. For large sample, the sample cost paid will be deducted from the order amount. Please kindly confirm with our sales for your specific requirement.

Q: Can I send our engineers to China?
A: Of course. Welcome to our factory for on-the-spot inspection.

Q: How do you control the quality of your product?
A: Each production procedure will be subject to test and evaluation, from the very choice of the raw materials to the package for shipment. Only the products surviving all the tests are delivered for export.

Q: Can you do SS grinding bar?
A: Yes we can do SS grinding bar featuring precise dimension, roundness and straightness, superior to stainless steel polished bars, but the processing cost is also higher.

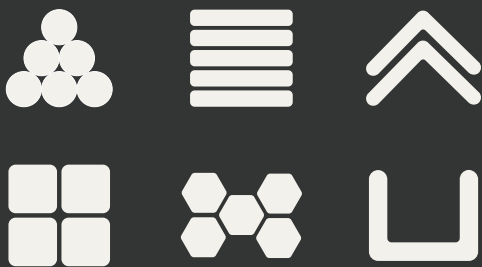
Q: Can you polish SS flat bar to hairline finish?
A: Yes, we can. We can polish stainless steel flat bar to 180#, 320# and hairline finish for your different choice.

Q: What's the finish of the your stainless steel angle bar?
A: We have pickled and sand blasting finish for the majority of our SS angle bar orders. If you have special requirements such as polishing, we can also do it as per your request.

Q: Do you have cold drawn stainless steel square bars?
A: Yes, we produce cold drawn SS square bars with bright finish. Cold drawn SS square bars are more costly than hot rolled SS square bars, but with better mechanical properties.

Q: Can you make your stainless steel hex bar in round edge?
A: Yes, we can produce round-edge SS hex bar as per your request. You can also refer to our photos for better understanding.

Q: Can you provide hot-rolled stainless steel channel bar without welding?
A: It depends. Normally, the dimension range for hot-rolled SS channel bar is from 40 x 80 x 4 mm to 60 x 120 x 7mm. Beyond this range, we will do welding or press bending as per your request.



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