

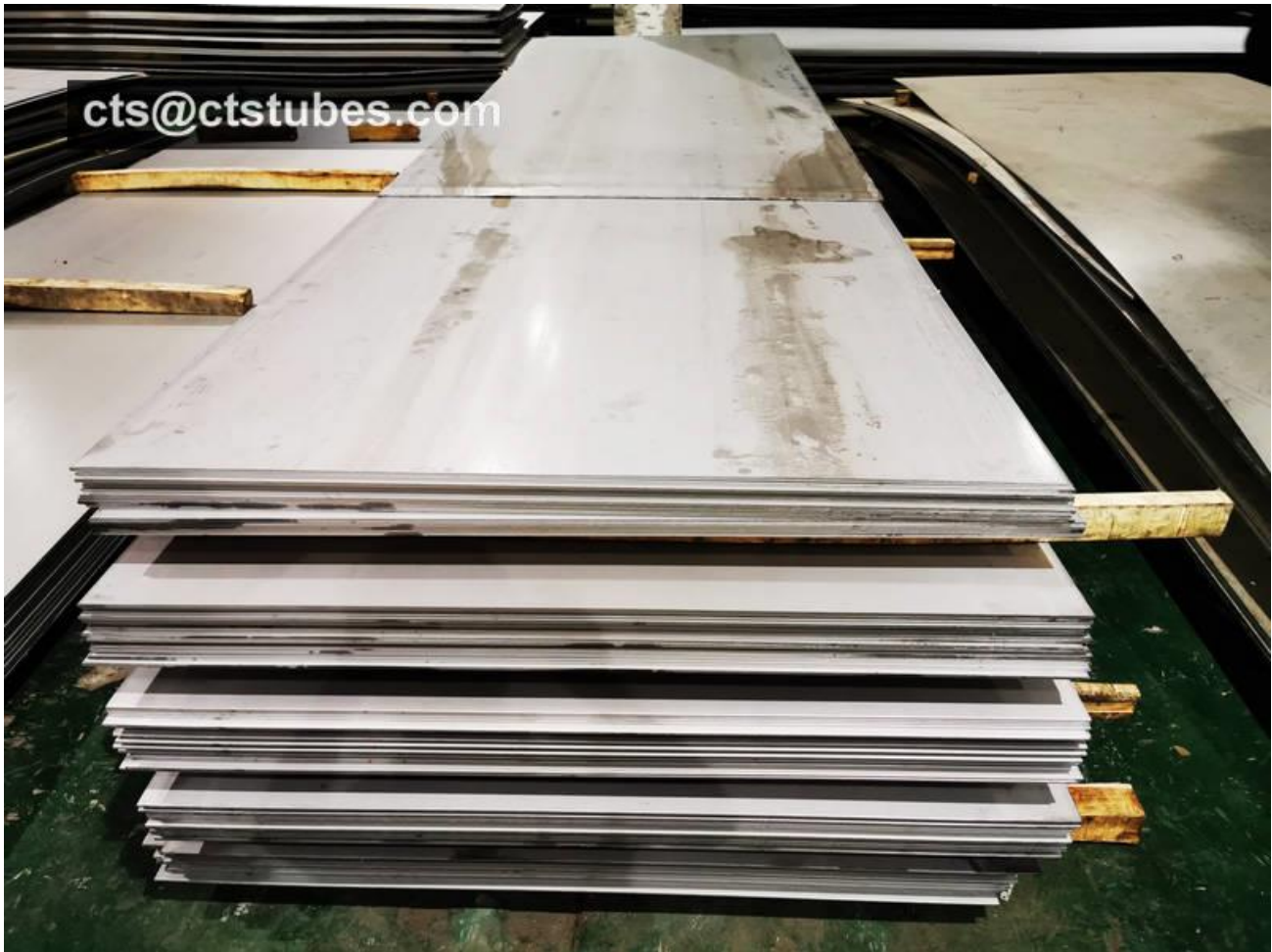


CTSTUBES

Professional Pipeline Supplier

ASTM A240 S31703 S30403 S31603 Stainless Plate

TP304L TP317L TP316L Stainless Plate



ASTM A240 S31703 Stainless Plate

ASTM A240/A 240M Covers chromium, chromium-nickel, and chromium-manganese-nickel stainless steel plate, sheet, and strip for pressure vessels and for general applications.

ASTM A240/A 240M Grades S30403, S30908, S31009, S31254, S31603, S31703, S32205, S32750...

Standard: ASTM A240/A 240M

Description Name: Stainless plate, stainless coils, Duplex stainless plate, Duplex stainless coils.

Seamless Stainless-Steel Pipe:

Size: Width 1500mm (Stocks)

Wall Thickness: 1mm to 30mm

Shape: Plate or coils

Length: Coils, Plate (3m, 6m, 9m, 12m)



Grade	Specification
S30403	TP304L
S31603	TP316L
S30103	TP301L
S31703	TP317L
S32003	TP320L

Chemical Composition:

Grade	UNS Design	Composition, %														
		C	Mn	P	S	Si	Cr	Ni	Mo	Ti	Nb	N	Cu	Ce	B	Al
TP304	S30400	0.08	2	0.045	0.03	1	18.0-20	8.0-11	...	...	...	...	...	...
TP304L	S30403	0.035	2	0.045	0.03	1	18.0-20	8.0-13	...	...	...	...	...	...
TP304H	S30409	0.04-0.1	2	0.045	0.03	1	18.0-20	8.0-11	...	...	...	...	...	...
TP310S	S31008	0.08	2	0.045	0.03	1	24.0-26	19.0-22	0.8	...	...	...	...	...
TP310H	S31009	0.04-0.1	2	0.045	0.03	1	24.0-26	19.0-22	...	...	...	...	...	...
TP310H	S31035	0.04-0.1	0.6	0.025	0.015	0.4	21.5-23.5	23.5-26.5	...	...	0.40-0.6	0.20-0.3	2.5-3.5	...	0.002-0.008	
TP316	S31600	0.08	2	0.045	0.03	1	16.0-18	10.0-14	2.00-3	...	...	...	...	...
TP316L	S31603	0.035	2	0.045	0.03	1	16.0-18	10.0-14	2.00-3	...	...	...	...	...
TP316H	S31609	0.04-0.1	2	0.045	0.03	1	16.0-18	10.0-14	2.00-3	...	...	...	...	...
TP317	S31700	0.08	2	0.045	0.03	1	18.0-20	11.0-15	3.0-4	...	...	...	...	...
TP317L	S31703	0.035	2	0.045	0.03	1	18.0-20	11.0-15	3.0-4	...	...	...	...	...



TP321	S32100	0.08	2	0.045	0.03	1	17.0-19	9.0-12	...	Ti 5 × (C+N) min, 0.70 max	...	0.1	...	...
TP321H	S32109	0.04 - 0.1	2	0.045	0.03	1	17.0-19	9.0-12	...	4(C+N) min; 0.70 max	...	0.1	...	...
TP321H	S32654	0.02	2.0-4	0.03	0.005	0.5	24.0-25	21.0-23	7.0-8	...	...	0.45-0.55	0.30-0.6	...		
TP321H	S33228	0.04 - 0.08	1	0.02	0.015	0.3	26.0-28	31.0-33	...	...	0.60-1	...	...	0.05 - 0.1		0.025
TP321H	S34565	0.03	5.0-7	0.03	0.01	1	23.0-25	16.0-18	4.0-5	...	0.1	0.40-0.6	...	...
TP347	S34700	0.08	2	0.045	0.03	1	17.0-19	9.0-13	...	...	See Spec	...	...	...
TP347H	S34709	0.04 - 0.1	2	0.045	0.03	1	17.0-19	9.0-13	...	...	See Spec	...	...	...
Alloy 20	N08020	0.07	2	0.045	0.035	1	19.0-21	32.0-38	2.0-3	...	See Spec	...	3.0-4	...	...	...
Alloy 20	N08367	0.03	2	0.04	0.03	1	20.0-22	23.5-25.5	6.0-7	...	...	0.18-0.25	0.75	...	...	...
Alloy 20	N08028	0.03	2.5	0.03	0.03	1	26.0-28	30.0-34	3.0-4				0.60-1.4			
Alloy 20	N08029	0.02	2	0.025	0.015	0.6	26.0-28	30.0-34	4.0-5				0.6-1.4			

Heat Treatment Requirements

Grade	UNS Designation	Finished	Heating Temperature	Cooling/testing Requirements
TP304H	S30409, S30415	Cold	1900 °F [1040 °C]	See Spec
TP304H	S30409, S30415	Hot	1900 °F [1040 °C]	See Spec
TP310H	S31009		1900 °F [1040 °C]	See Spec
TP310H	S31035		2160—2280 °F [1180—1250 °C]	See Spec
TP316H	S31609	Cold	1900 °F [1040 °C]	See Spec
TP316H	S31610	Hot	1900 °F [1040 °C]	See Spec
TP321H	S32109, S32615	Cold	2000 °F [1100 °C]	See Spec



TP321H	S32109, S32615	Hot	1925 °F [1050 °C]	See Spec
TP321H	S32654		2100 °F [1150 °C]	See Spec
TP321H	S33228		2050—2160 °F [1120—1180 °C]	See Spec
TP321H	S34565		2050—2140 °F [1120—1170 °C]	See Spec
TP347H	S34709	Cold	2000 °F [1100 °C]	See Spec
TP347H	S34709	Hot	1925 °F [1050 °C]	See Spec
Alloy 20	N08020		1700—1850 °F [925—1010 °C]	See Spec
Alloy 20	N08367		2025 °F [1110 °C]	See Spec
Alloy 20	N08028		2000 °F [1100 °C]	See Spec
Alloy 20	N08029		2000 °F [1100 °C]	See Spec

Tensile Requirements

Grade	UNS Designation	Tensile Strength, Min. ksi [MPa]	Yield strength, min ksi [MPa]	other
TP304	S30400	75 [515]	30 [205]	
TP304L	S30403	70 [485]	25 [170]	
TP304H	S30409	75 [515]	30 [205]	
TP304H	S30415	87 [600]	42 [290]	
TP310S	S31008	75 [515]	30 [205]	
TP310H	S31009	75 [515]	30 [205]	
TP310H	S31035	95 [655]	45 [310]	
TP316	S31600	75 [515]	30 [205]	
TP316L	S31603	70 [485]	25 [170]	
TP316H	S31609	75 [515]	30 [205]	
TP316H	S31635	75 [515]	30 [205]	
TP317	S31700	75 [515]	30 [205]	
TP317L	S31703	75 [515]	30 [205]	
TP317L	S31725	75 [515]	30 [205]	
TP317L	S31726	80 [550]	35 [240]	
TP317L	S31727	80 [550]	36 [245]	
TP317L	S31730	70 [480]	25 [175]	
TP317L	S32053	93 [640]	43 [295]	
TP321	S32100	75 [515]	30 [205]	welded & seamless
TP321	S32100	75 [515]	30 [205]	t = 0.375 in.
TP321	S32100	70 [480]	25 [170]	t > 0.375 in.



TP321H	S32109	75 [515]	30 [205]	welded & seamless
TP321H	S32109	75 [515]	30 [205]	t = 0.375 in.
TP321H	S32109	70 [480]	25 [170]	t > 0.375 in.
TP321H	S32615	80 [550]	32 [320]	
TP321H	S32654	109 [750]	62 [430]	
TP321H	S33228	73 [500]	27 [185]	
TP321H	S34565	115 [795]	60 [415]	
TP347	S34700	75 [515]	30 [205]	
TP347H	S34709	75 [515]	30 [205]	
Alloy 20	N08020	80 [550]	35 [240]	
Alloy 20	N08028	73 [500]	31 [214]	
Alloy 20	N08029	73 [500]	31 [214]	
Alloy 20	N08367	100 [690]	45 [310]	t = 0.187 in.
Alloy 20	N08367	95 [655]	45 [310]	t > 0.187 in.

Elongation Requirements

cts@ctstubes.com

Elongation in 2 in., min, %		longitudinal	Transverse	Grain size
Longitudinal	Transverse			
35	25	35	25	...
35	25	35	25	...
35	25	35	25	7 or coarser
35	25	35	25	...
35	25	35	25	...
35	25	35	25	6 or coarser
35	25	35	25	7 or coarser
35	25	35	25	...
35	25	35	25	...
35	25	35	25	7 or coarser
35	25	35	25	...
35	25	35	25	...
35	25	35	25	...
35	25	35	25	...
35	25	35	25	...
35	25	35	25	...
35	25	35	25	...
35	25	35	25	...
35	25	35	25	...
35	25	35	25	...



35	25	35	25	...
35	25	35	25	...
35	25	35	25	...
35	25	35	25	...
35	25	35	25	7 or coarser
35	25	35	25	...
35	25	35	25	...
25	...	25	...	3 or finer
35	25	35	25	...
35	25	35	25	...
35	25	35	25	...
35	25	35	25	...
35	25	35	25	7 or coarser
35	25	35	25	...
40	...	40	...	...
40	...	40	...	...
30	...	30	...	...
30	...	30	...	...

Markings cts@ctstubes.com

- Standard + Material + Width *Thickness*Length

Stainless Steel Plate Photos:



ASTM A240 Stainless Plate Cutting Mill



ASTM A240 Stainless Plate 10mm Thickness

Packing and Marking

- Packed in bundles or plywooden box wrapped in plastic, and suitably protected for sea-worthy delivery or as requested.

Packing photos:



ASTM A240 Stainless Plate Package



Read more information of this products

- [ASTM A240 S31703 S30403 S31603 Stainless Plate](#)

Related products

Cold Drawn precision tubes

- [JIS G3445 STKM11A, STKM12C, STKM12A Steel Tubes](#)
- [EN10305-1 Seamless Cold Drawn Tubes](#)
- [DIN2391 Seamless Precision Steel tubes](#)

Carbon steel

- [ASTM A519 ASME SA519 SAE1010 Seamless tubes and pipes](#)
- [ASTM A519 ASME SA519 SAE1020 seamless tubes and pipes](#)
- [ASTM A519 ASME SA519 SAE1026 seamless tubes and pipes](#)
- [ASTM A519 ASME SA519 SAE1035 seamless tubes and pipes](#)
- [ASTM A519 ASME SA519 SAE1045 seamless tubes and pipes](#)
- [ASTM A519 ASME SA519 SAE4130 seamless tubes and pipes](#)
- [ASTM A179 / ASME SA179 Seamless tubes](#)
- [ASTM A192 / ASME SA192 Seamless boiler tubes](#)
- [ASTM A210 / ASME SA210 GRADE A1 Seamless tubes](#)
- [ASTM A210 / ASME SA210 GRADE C Seamless tubes](#)

Alloy steel

- [ASTM A213 T11 T12 T22 Seamless alloy tubes](#)
- [ASTM A 213/A 213M T2, T5, T5b, T9, T91 Seamless Alloy Steel tubes](#)
- [ASTM A335 P1, P2, P5, P9 Seamless alloy pipes](#)
- [ASTM A335 P11, P12, P22, P91 seamless alloy pipes](#)
- [ASTM A209 ASME SA209 T1 tubes](#)

Stainless steel and Duplex

- [ASTM A269 Stainless Steel Tubes](#)
- [ASTM A213 Stainless Steel Tubes](#)
- [ASTM A249 Stainless Steel Tubes](#)



CTSTUBES

Professional Pipeline Supplier

- [ASTM A270 Sanitary Stainless Tubing](#)
- [ASTM A312 Stainless Steel Pipes](#)
- [ASTM A789 Duplex Stainless Tubing](#)

Copper and Brass

- [ASTM B111 Copper and Brass Tubes](#)

Titanium Alloy Tubes

- [ASTM B338 GR.1 GR.2 GR.3 Titanium Alloy Tubes](#)

Read more information of CTS TUBES main products

- [Seamless carbon steel tubes](#)
- [Cold drawn precision steel tubes](#)
- [Seamless alloy steel tubes](#)
- [Copper alloy seamless tubes](#)
- [Titanium and titanium alloy tubes](#)
- [Stainless steel tubes](#)
- [U bent heat exchanger tubes](#)
- [Fin tubes](#)
- [Bearing steel tubes](#)

cts@ctstubes.com



About CTS TUBES

CTS TUBES provide a wide range of steel products as Steel Pipes, Seamless Tube and Seamless Pipes, Alloy Pipes, Pipe Fittings, Stainless Steel Pipe, Copper Tube and Titanium Alloy Tube used in the industry, construction etc. We are looking forward to getting in contact by phone or email and we hope that you enjoy our website. More than ten years of profound knowledge turn CTS TUBES to



CTSTUBES

Professional Pipeline Supplier

your partner as trading house for tubes, fittings and stainless steel. The name CTS TUBES stands for certified quality, because of that, all products of our wide range consist to demanding norms and the highest standards. CTS TUBES also stands for know-how, effective service, and best solutions for your profit. Our qualified team in our export department in China is always at your disposal and ready to help you. Get in touch if you are interested in our products or cooperation.

Get in Touch



If you are interested in our products or cooperation with us, even having a comment or a suggestion, please contact us now for more detailed information.

Tel.: +86 185 5109 0083 | E-mail: cts@ctstubes.com

----- www.ctstubes.com -----

cts@ctstubes.com