

ASTM Seamless Pipe

Steel Pipe- Seamless Pipe- ASTM Seamless Pipe- 【Steel Grade】			
Standard No	Steel Grade	Standard Name	Dimension Range
ASTM A53	Grade A, Grade B	Black and Hot-Dipped, Zinc-Coated Seamless Pipe	0.405-26 inch 10.3-660 mm
ASTM A106	Grade A, Grade B, Grade C	Seamless Carbon Steel Pipe for High-Temperature Service	NPS 1/8-NPS 48 DN6-DN1200
ASTM A161	Low Carbon Steel (LC), Grade T1	Seamless Low Carbon and Carbon Molybdenum Steel Still Tubes for Refinery Service	2-9 inch 50.8-228.6 mm
ASTM A179		Seamless Cold-Drawn Low-Carbon Steel Heat-Exchanger and Condenser Tubes	1/8-3 inch 3.2-76.2 mm
ASTM A192		Seamless Carbon Steel Boiler Tubes For High-Pressure Service	1/2-7 inch 12.7-177.8 mm
ASTM A199	T5, T9, T11, T22	Seamless Cold Drawn Intermediate Alloy Steel Heat Exchanger and Condenser Tubes	1/8-3 inch 3.2-76.2 mm
ASTM A209	Grade T1, Grade T1a, Grade T1b	Seamless Carbon-Molybdenum Alloy-Steel Boiler and Superheater Tubes	1/2-5 inch 12.7-127 mm
ASTM A210	Grade A-1, Grade C	Seamless Medium-Carbon Steel Boiler and Superheater Tubes	1/2-5 inch 12.7-127 mm
ASTM A213	T2, T5, T5b, T5c, T9, T11, T12, T17, T21, T22, T23, T24, T36, T91, T92, T122, T911	Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, and Heat-Exchanger Tubes	1/8-5 inch 3.2-127 mm
ASTM A252	Grade 1, Grade 2, Grade 3	Seamless Steel Pipe Piles	6-24 inch
ASTM A333	Grade 1, Grade 3, Grade 4, Grade 6, Grade 7, Grade 8, Grade 9, Grade 10, Grade 11	Seamless Steel Pipe for Low-Temperature Service	0.405-26 inch 10.3-660 mm
ASTM A334	Grade 1, Grade 3, Grade 6, Grade 7, Grade 8 Grade 9, Grade 11	Seamless Carbon and Alloy-Steel Tubes for Low-Temperature Service	0.405-26 inch 10.3-660 mm
ASTM A335	P1, P2, P5, P5b, P5c, P9, P11, P12, P15, P21, P22 P23, P36, P91, P92, P122, P911	Seamless Ferritic Alloy-Steel Pipe for High-Temperature Service	0.405-26 inch 10.3-660 mm
ASTM A423	Grade 1, Grade 2	Seamless Low-Alloy Steel Tubes	1/2-5 inch 12.7-127 mm

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ASTM A500	Grade A, Grade B, Grade C, Grade D	Cold-Formed Seamless Carbon Steel Structural Tubing in Rounds and Shapes	≤64 inch ≤1630mm
ASTM A501	Grade A, Grade B	Hot-Formed Seamless Carbon Steel Structural Tubing	NPS1/2-NPS24
ASTM A519	MT 1010, MT 1015, MT X 1015, MT 1020, MT X1020, 1008, 1010, 1012, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1025, 1026, 1030, 1035, 1040, 1045, 1050, 1518, 1524, 1541, 1330, 1335, 1340, 1345, 3140, E3310, 4012, 4023, 4024, 4027, 4028, 4037, 4042, 4047, 4063, 4118, 4130, 4135, 4137, 4140, 4142, 4145, 4147, 4150, 4320, 4337, E4337, 4340, E4340, 4422, 4427, 4520, 4615, 4617, 4620, 4621, 4718, 4720, 4815, 4817, 4820, 5015, 5046, 5115, 5120, 5130, 5132, 5135, 5140, 5145, 5147, 5150, 5155, 5160, 52100, E50100, E51100, E52100, 6118, 6120, 6150, E7140, 8115, 8615, 8617, 8620, 8622, 8625, 8627, 8630, 8637, 8640, 8642, 8645, 8650, 8655, 8660, 8720, 8735, 8740, 8742, 8822, 9255, 9260, 9262, E9310, 9840, 9850, 50B40, 50B44, 50B46, 50B50, 50B60, 51B60, 81B45, 86B45, 94B15, 94B17, 94B30, 94B40, 1118, 11L18, 1132, 1137, 1141, 1144, 1213, 12L14, 1215	Seamless Carbon and Alloy Steel Mechanical Tubing	≤12.75 inch ≤323.8 mm

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ASTM A523	Grade A, Grade B	Plain End Seamless Steel Pipe for High-Pressure Pipe-Type Cable Circuits	NPS4-NPS12
ASTM A524	Grade I, Grade II	Seamless Carbon Steel Pipe for Atmospheric and Lower Temperatures	NPS1/8-NPS26
ASTM A556	Grade A2, Grade B2, Grade C2	Seamless Cold-Drawn Carbon Steel Feedwater Heater Tubes	5/8-1.25 inch 15.9-31.8 mm
ASTM A589	Grade A, Grade B	Seamless Carbon Steel Water-Well Pipe	6-16 inch 168.3-406.4 mm
ASTM A795	Grade A, Grade B	Black and Hot-Dipped Zinc-Coated Seamless Pipe for Fire Protection Use	1.05-10.75 inch 26.7-273.1 mm

Steel Pipe- Seamless Pipe- ASTM Seamless Pipe- 【Dimension】					
NPS Designator	DN Designator	Outside Diameter, Inch [mm]	Schedule No. Available	Weight Class Available	Wall Thickness Available Inch [mm]
1/8	6	0.405 [10.3]	40, 80	STD, XS	0.068-0.095 [1.73-2.41]
1/4	8	0.540[13.7]	40, 80	STD, XS	0.088-0.119 [2.24-3.02]
3/8	10	0.675 [17.1]	40, 80	STD, XS	0.091-0.126 [2.31-3.20]
1/2	15	0.840 [21.3]	40, 80, 160	STD, XS, XXS	0.109-0.294 [2.77-7.47]
3/4	20	1.050 [26.7]	40, 80, 160	STD, XS, XXS	0.083-0.308 [2.11-7.82]
1	25	1.315 [33.4]	40, 80, 160	STD, XS, XXS	0.104-0.358 [2.64-9.09]
1 ¹ / ₄	32	1.660 [42.2]	40, 80, 160	STD, XS, XXS	0.109-0.382 [2.77-9.70]
1 ¹ / ₂	40	1.900 [48.3]	40, 80, 160	STD, XS, XXS	0.109-0.400 [2.77-10.16]
2	50	2.375 [60.3]	40, 80, 160	STD, XS, XXS	0.109-0.436 [2.77-11.07]
2 ¹ / ₂	65	2.875 [73.0]	40, 80, 160	STD, XS, XXS	0.083-0.552 [2.11-14.02]
		3.000[76.2]			0.083-0.250 [2.11-6.35]
3	80	3.500 [88.9]	40, 80, 160	STD, XS, XXS	0.083-0.600 [2.11-15.24]
3 ¹ / ₂	90	4.000 [101.6]	40, 80	STD, XS	0.083-0.318 [2.11-8.08]
4	100	4.500 [114.3]	40, 80, 120, 160	STD, XS, XXS	0.083-0.674 [2.11-17.12]
		5.000[127]			0.083-0.250 [2.11-6.35]
		5.500[139.7]			0.188-0.500 [4.78-12.70]
5	125	5.563 [141.3]	40, 80, 120, 160	STD, XS, XXS	0.134-0.750 [3.40-19.05]
		6.000[152.4]			0.134-0.500 [3.40-12.70]
6	150	6.625 [168.3]	40, 80, 120, 160	STD, XS, XXS	0.134-0.864 [4.78-21.95]
		7.000[177.8]			0.188-0.500 [4.78-12.70]
		8.000[203.2]			0.141-0.172 [3.58-4.37]

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8	200	8.625 [219.1]	20, 30, 40, 60, 80, 100, 120, 140, 160	STD, XS, XXS	0.109-0.906 [2.77-23.01]
		9.625[244.5]			0.188-0.500 [4.78-12.70]
		10.000[254]			0.109-0.250 [2.77-6.35]
10	250	10.750[273.0]	20, 30, 40, 60, 80, 100, 120, 140, 160	STD, XS, XXS	0.109-1.125 [2.77-28.57]
		12.000[304.8]			0.134-0.312 [3.4-7.92]
12	300	12.750[323.8]	20, 30, 40, 60, 80, 100, 120, 140, 160	STD, XS, XXS	0.109-1.312 [2.77-33.32]
14	350	14.000 [355.6]	10, 20, 30, 40, 60, 80, 100, 120, 140, 160	STD, XS, XXS	0.134-2.500 [3.4-63.50]
16	400	16.000 [406.4]	10, 20, 30, 40, 60, 80, 100, 120, 140, 160	STD, XS, XXS	0.134-1.594 [3.40-40.49]
18	450	18.000 [457]	10, 20, 30, 40, 60, 80, 100, 120, 140, 160	STD, XS, XXS	0.141-1.781 [3.58-45.24]
20	500	20.000 [508]	10, 20, 30, 40, 60, 80, 100, 120, 140, 160	STD, XS, XXS	0.141-1.969 [3.58-50.01]
		22.000[558.8]			0.172-0.500 [4.37-12.70]
24	600	24.000 [610]	10, 20, 30, 40, 60, 80, 100, 120, 140, 160	STD, XS, XXS	0.172-2.344 [4.37-59.54]
26	650	26.000 [660]	10, 20	STD, XS	0.250-0.562 [6.35-14.27]

Steel Pipe- Seamless Pipe- ASTM Seamless Pipe- 【Dimension Tolerance】				
Standard	Tolerance			
	Outside Diameter		Wall Thickness	Unit Weight
ASTM A53	≤1.5 inch	±1/64 inch [0.4mm]	±12.5%	±10%
	≥2 inch	±1%		
ASTM A106	1/8 – 1.5 inch 6-40 mm	±1/64inch [0.4mm]	±12.5%	+10% -3.5%
	1.5-4 inch 40-100 mm	±1/32inch [0.8mm]		
	4-8 inch 100-200 mm	+1/16inch[1.6mm] -1/32inch[0.8mm]		

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	8-18 inch 200-450 mm	+3/32inch[2.4mm] -1/32inch[0.8mm]			
	18-26 inch 450-650 mm	+1/8inch[3.2mm] -1/32inch[0.8mm]			
	26-34 inch 650-850 mm	+5/32inch[4.0mm] -1/32inch[0.8mm]			
	34-48 inch 850-1200 mm	+3/16inch[4.8mm] -1/32inch[0.8mm]			
ASTM A213			±10%		
ASTM A252	±1%		±12.5%		+15% -5%
ASTM A335	1/8-1.5 inch 6-40 mm	+1/64inch[0.40mm] -1/64inch[0.40mm]	1/8-2.5inch 6-65mm	+20% -12.5%	
	>1.5-4 inch >40-100 mm	+1/32inch[0.79mm] -1/32inch[0.79mm]			
	>4-8 inch >100-200 mm	+1/16inch[1.59mm] -1/32inch[0.79mm]	>2.5inch 65mm, t/D≤5%	+22.5% -12.5%	
	>8-12 inch >200-300 mm	+3/32inch[2.38mm] -1/32inch[0.79mm]			
	>12 inch >300mm	±1%	>2.5inch 65mm t/D>5%	+15.0% -12.5%	
ASTM A500	≤1.9 inch 48 mm	±0.5%	10%		
	≥2.0 inch 50 mm	±0.75%			
ASTM A501	≤1.5 inch	±1/64inch[0.4mm]			±3.5%
	>1.5 inch	±1/32inch[0.79mm]			
ASTM A519 For Round Hot-finished Tubing	≤2.999inch 76.17mm	±0.02inch[0.51mm]			
	3.0-4.499inch 76.2-114.27mm	±0.025inch[0.64mm]			
	4.5-5.999inch 114.30-152.37mm	±0.031inch[0.79mm]			
	6.0-7.499inch 152.4-190.47mm	±0.037inch[0.94mm]			
	7.5-8.999inch 190.5-228.57mm	±0.045inch[1.14mm]			
	9.0-10.750inch 228.6-273.05	±0.050inch[1.27mm]			
ASTM A523	±1%				

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ASTM A524	1/8-1.5inch	+1/64inch[0.4mm] -1/32inch[0.8mm]	±12.5%	+6.5% -3.5%
	>1.5-4inch	±1/32[0.8mm]		
	>4-8inch	+1/16inch[1.6mm] -1/32inch[0.8mm]		
	>8-18inch	+3/32inch[2.4mm] -1/32inch[0.8mm]		
	>18inch	+1/8inch[3.2mm] -1/32inch[0.8mm]		
ASTM A556	<1.0inch[25.4mm]	±0.004inch 0.10mm	+20% 0	
	1.0-1.25inch 25.4-31.7mm	±0.006inch 0.15mm		
ASTM A589	<1.5inch	±1/64inch[0.4mm]		±5%
	≥1.5inch	±1%		
ASTM A795	<1.5inch	±1/64inch[0.4mm]	±12.5%	±5%
	≥2inch	±1%		