



BoilerTube

Manufacturer of austenitic, duplex and nickel alloy welded/seamless stainless steel pipes/tubes

www.eb-stainless.com



Material Available:

TP304H, TP321H, TP347H, S30432, S31042

Standard: ASTM A/SA 213/M Seamless Ferritic and Austenitic Alloy-steel Boiler, Super-Heater and Heat-Exchanger Tubes

Mechanical Properties

Steel grade	Tensile strength, MPa	Percent elongation, % (Not less than)
TP304H	515	35
TP321H	515	35
TP347H	515	35
S30432	550	35
S31042	655	30

Chemical composition Limits, %

Steel Grade	C	Mn	Si	P	S	Cr	Ni	Mo	Ti	Others
TP304H	0.04-0.10	2.0	1.00	0.045	0.030	16.0-20.0	8.0-11.0	-	-	
TP321H	0.04-0.10	2.0	1.00	0.045	0.030	17.0-19.0	9.0-12.0	-	-	
TP347H	0.04-0.10	2.0	1.00	0.045	0.030	17.0-19.0	9.0-12.0	-	-	
S30432	0.07-0.13	0.5	0.03	0.045	0.030	17.0-19.0	7.5-10.5	-	-	W:0.015-0.020 N:0.010-0.015 Cu:0.010-0.020 Pb:0.010 Bi:0.010
S31042	0.04-0.10	2.0	1.00	0.045	0.030	24.0-26.0	19.0-22.0	-	-	W:0.015-0.020 N:0.010-0.015 Cu:0.010 Pb:0.010 Bi:0.010

Size Available

Outside diameter		Wall thickness		Tolerances on		
mm	inch	mm	inch	Outside diameter	Wall thickness	
31.75	1 ^{1/4}	1.0-7.0	0.039-0.276	+0.15/-0.15	+20%/0	
33.40		1.0-7.5	0.039-0.295			
35.00		1.0-7.5	0.039-0.295			
36.00		1.0-7.5	0.039-0.295			
38.00	1.0-7.5	0.039-0.295	+0.2/-0.2			
38.10	1 ^{1/2}	1.0-7.5				0.039-0.295
42.00		1.0-8.0				0.039-0.315
44.50	13 ^{3/4}	1.0-9.0				0.039-0.354
48.30	2	1.2-10.0	0.047-0.394	+0.25/-0.25	+22%/0	
50.80		1.5-11.0	0.059-0.433			
57.15		23 ^{3/4}	1.8-12.0			0.070-0.472
60.30		23 ^{3/8}	2.0-12.0			0.079-0.472
63.50	2 ^{1/2}	2.0-12.0	0.079-0.472	+0.3/-0.3		
69.85		23 ^{3/4}	2.0-12.0		0.079-0.472	
73.00	3	2.0-12.0	0.079-0.472	+0.38/-0.38		
76.20		2.0-18.0	0.079-0.709			
80.00		2.0-18.0	0.079-0.709			
85.00		2.0-18.0	0.079-0.709			
88.90	3 ^{1/2}	2.0-18.0	0.079-0.709			

Notes:

1. Tubes will pass tensile test, flaring test, flange test, reverse flattening test and non-destructive test, they shall be tested for hardness and grain size
2. Upon request tubes shall be submitted to intergranular corrosion test
3. Tubes of other dimensions and lengths can be manufactured upon agreement within the customer and us

Cold - finished tubes are in lengths of MAX.15 meter.

Tolerances on fixed length of cold finished tubes:
ø-50.8 - +3/-0 mm;
ø>50.8 - +5/-0 mm;