



Heat Exchanger/Condenser Tube

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

www.eb-stainless.com



Material Available:

TP304, TP304L, TP304H, TP316, TP316L, TP316Ti, TP316LN,
TP317L, TP321, TP321H, TP347, TP347H, TP310S,
S32750, S32760, 904L, S31803(S32205),
N06600, N08825, N04405,
Grade 2, Grade 5, Grade 7, Grade 12

Standard: ASTM A/SA 213/M

ASTM A/SA 249/M

ASTM A/SA 688/M

ASTM A/SA 789/M

Seamless Ferritic and Austenitic Alloy-steel Boiler,
Super-Heater and Heat-Exchanger Tubes

Welded Austenitic Steel Boiler, Super-Heater,
Heat-Exchanger, and Condenser Tubes

Welded Austenitic Stainless Steel Feedwater Heater Tubes

Seamless Ferritic and Austenitic Stainless Steel
Tubing for General Service

Mechanical Properties

Steel grade	Tensile strength, MPa	Percent elongation, %
	(Not less than)	
S32001	620	25
S31500	630	30
S32304	OD 1 in. [25 mm] and Under	690
	OD over 1 in. [25 mm]	600
S31803	620	25
S32205	655	25
S32760	750	25
S32750	800	15

Chemical composition Limits, %^a

Steel Grade ^b	C	Mn	Si	P	S	Cr	Ni	Mo	N	Cu	Others
S32001	0.03	4.00-6.00	1.00	0.040	0.030	19.5-21.5	1.0-3.0	0.60	0.05-0.17	1.00	
S31500	0.03	1.20-2.00	1.40-2.00	0.030	0.030	18.0-19.0	4.3-5.2	2.50-3.00	0.05-0.16	-	
S32304	0.03	2.50	1.00	0.040	0.040	21.5-24.5	3.0-5.5	0.05-0.10	0.05-0.20	0.05-0.6	
S31803	0.03	2.00	1.00	0.030	0.020	21.0-23.0	4.5-6.5	2.5-3.5	0.08-0.20	-	
S32205	0.03	2.00	1.00	0.030	0.020	22.0-23.0	4.5-6.5	3.0-3.5	0.14-0.20	-	
S32760	0.05	1.00	1.00	0.030	0.010	24.0-26.0	6.0-8.0	3.0-4.0	0.20-0.30	0.5-1.0	c
S32750	0.03	1.20	0.80	0.035	0.020	24.0-26.0	6.0-8.0	3.0-5.0	0.24-0.32	0.50	

a: weight percent, maximum unless otherwise noted.

b: new designation established in accordance with Practice E527 and SAE J1086

c: w 0.50-1.00; cr+3.3mo+16n=40 min.

Size Available

	Standard	Outside diameter		Wall thickness		Tolerances on
		mm	inch	mm	inch	
Seamless pipe/tube	ASTM A 789/A 789M	12.7-203.2	0.5"-8"	0.5-6.35	0.0197"-0.250"	Please refer to relative Standard
	ASTM A 790/A 790M	10.3-273	0.405"-10.75"	0.5-16.0	0.0197"-0.630"	
Welded pipe/tube	ASTM A 789/A 789M	12.7-203.2	0.5"-8"	0.5-4.0	0.0197"-0.157"	
	ASTM A 790/A 790M	10.3-406.4	0.405"-16"	0.5-10.0	0.0197"-0.394"	
	ASTM A 928/A 928M	10.3-406.4	0.405"-16"	0.5-10.0	0.0197"-0.394"	

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

Seamless pipes/tubes are in lengths of MAX 15 meter.
Welded pipes/tubes are in lengths of MAX 22 meter.