

ASME SA 192 TUBE SPECIFICATIONS

GENERAL CHARACTERISTICS:

This specification applies to [ASTM SA 192 Tube](#), which is a minimum-wall thickness, seamless carbon steel boiler and super heater tube. The tubing diameters and wall thicknesses that are typically supplied to this specification range from 0.085 to 1.000 in. [2.2 to 25.4 mm], inclusive, in minimum wall thickness and from 1/2 in. to 7 in. [12.7 to 177.8 mm] in outer diameter. Other sized tubes are acceptable as long as they meet all other specifications of this specification. Tubing with an internal diameter or thickness less than 1/8 in [3.2 mm] or 0.015 in [0.4 mm] is exempt from the mechanical property criteria.

HEAT TREATMENT:

Heat treatment is not required for hot-finished tubes. After the final cold finish, tubes must be heat treated at a temperature of 1200°F (650°C) or higher.

MANUFACTURING:

Tubes must be produced using a seamless technique and completed either hot or cold, depending on the requirements.

MECHANICAL PROPERTIES OF ASME SA 192 TUBE:

Mechanical properties	UTS ksi (MPa)	YS ksi (MPa)	%EL	Hardness (HRB)
ASME SA 192	325	180	35	≤ 77
				≤ 137

ASTM SA 192 CHEMICAL COMPOSITION FOR TUBE:

Designation		%C	%Mn	%S	%P	%Si
ASTM SA192 Tube	Min	0.06	0.27	--	--	--
	Max	0.18	0.63	0.035	0.035	0.25

For more details visit: [ASME SA 192 Tube Supplier](#)

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