

ASME SA 214 TUBE SPECIFICATIONS

GENERAL CHARACTERISTICS

This specification covers minimum-wall-thickness, electric-resistance-welded, carbon steel tubes to be used for heat exchangers, condensers, and similar heat-transfer apparatus. The tubing sizes usually furnished to this specification are to 3 in. [76.2 mm] in outside diameter, inclusive. [ASTM SA 214 Tubes](#) having other dimensions may be furnished, provided such tubes comply with all other requirements of this specification. Mechanical property requirements do not apply to tubing smaller than 1/8 in. [3.2 mm] in inside diameter or 0.015 in. [0.4 mm] in thickness. The purchaser shall specify in the order the outside diameter and minimum wall thickness. The inside diameter shall not be specified.

ASTM SA 214 CHEMICAL COMPOSITION FOR TUBE:

Designation		%C	%Mn	%S	%P
ASTM SA 214 Tube	Min	--	0.27	--	--
	Max	0.18	0.63	0.035	0.035

MECHANICAL PROPERTIES OF ASME SA 214 TUBE:

Mechanical properties	Hardness (HRB)
ASME SA 214	≤ 72

HEAT TREATMENT:

After welding, all tubes shall be heat treated at a temperature of 1650°F [900°C] or higher and followed by cooling in air or in the cooling chamber of a controlled atmosphere furnace. Cold drawn tubes shall be heat treated after the final cold-draw pass at a temperature of 1200°F [650°C] or higher.

For more details visit: [ASME SA 214 Tube Supplier](#)

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