

ASME SA 214 TUBE SPECIFICATIONS

GENERAL CHARACTERISTICS:

This specification applies to carbon steel tubes with a minimum wall thickness that are to be used in heat exchangers, condensers, and other heat-transfer devices. The tubing diameters that are typically supplied to this specification range up to 3 in. [76.2 mm], inclusive. SA 214 ASTM Other sized tubes are acceptable as long as they meet all the other specifications of this specification. [ASTM SA 214 Tubes](#) 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 standards for mechanical properties. The outside diameter and the minimum wall thickness must be specified by the buyer in the order. It is not necessary to specify the interior diameter.

HEAT TREATMENT:

All tubes must be heat treated at a temperature of at least 1650°F (900°C) after welding, and they must then be cooled in the open air or in a controlled environment furnace. After the final cold-draw pass, cold drawn tubes must be heat treated at a temperature of 1200°F [650°C] or higher.

MECHANICAL PROPERTIES OF ASME SA 214 TUBE:

Mechanical properties	Hardness (HRB)
ASME SA 214	≤ 72

ASTM SA 214 CHEMICAL COMPOSITION FOR TUBE:

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

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

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