DINESH TUBE INDIA

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ASME SA 210 TUBE SPECIFICATIONS

GENERAL CHARACTERISTICS:

This specification covers boiler tubes, boiler flues, safe ends, arch and stay tubes, and super heater tubes made of medium-carbon steel with a minimum wall thickness. This kind cannot be properly finished by forge welding. The tubing sizes and thicknesses typically supplied to this standard range from 0.035 to 0.500 in. [0.9 to 12.7 mm], inclusive, in minimum wall thickness, and have an outer diameter of 1/2 in. to 5 in. [12.7 to 127 mm]. Other sized ASTM SA 210 tubes are acceptable as long as they meet all the other specifications of this guideline. 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 standards for mechanical properties.

MECHANICAL PROPERTIES OF ASME SA 210 TUBE:

Mechanical properties	UTS ksi (MPa)	YS ksi (MPa)	%EL	Hardness (HRB)
ASME SA 210	415	255	30	≤ 79

HEAT TREATMENT:

Heat treatment is not required for hot-finished tubes. After the final cold-finishing procedure, tubes must undergo a normalising heat treatment, a full anneal, a subcritical anneal, or both.

MANUFACTURING:

Steel must be killed throughout the steelmaking process. The tubes must be produced using a seamless technique and completed either hot or cold, depending on the requirements.

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ASTM SA 210 CHEMICAL COMPOSITION FOR TUBE:

Designation		%C	%Mn	%S	%P	%Si
ASTM SA 210 Tube	Min	--	--	--	--	0.10
	Max	0.27	0.93	0.035	0.035	--

For more details visit: *ASME SA 210 Tube Supplier*

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