

## ASME SA210 GR A1 TUBE SPECIFICATION

### 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. Tubing smaller than 1/8 in. is exempt from the criteria for mechanical properties. [3.2 mm] or 0.015 in is the inner diameter. It is [0.4 mm] thick. Heat treatment is not required for hot-finished tubes. After the final cold finishing procedure, the tubes must undergo a normalising heat treatment, a full anneal, a subcritical anneal, or both. Any necessary pickling, shot blasting, or combination of the two must be clearly included in the order.

### ASME SA210 GR A1 SPECIFICATION FOR TUBE:

Standard	OD (inch)	Wall Thickness (mm)	Application	Surface Treatment	Length
ASTM A210/A210M (ASME SA210/SA210M)	3/4 - 20	0.8 - 15	Seamless Carbon Steel Boiler Tubes for High- Temperature Service.	Oiled, black painted, shot blasted, hot dipped galvanized or phosphate coating.	max 16000mm, 5 to 25 mm

### ASME SA210 GRADE A1 CHEMICAL COMPOSITION FOR TUBE:

Grade		%C	%Mn	%Si	%S	%P
ASME SA210 Grade A1	Min	--	--	--	--	--
	Max	0.27	0.93	0.10	0.035	0.035

**MECHANICAL PROPERTIES OF ASME SA210 GR A1 TUBE:**

Grade	UTS ksi (MPa)	YS ksi (MPa)	%EL	Hardness HB(max)
ASME SA210 Grade A1	60 (415)	37 (255)	30	143

For more details visit: [ASME SA210 GR A1 Tube Supplier](#)

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