

ASME SA 423 TUBE SPECIFICATIONS

GENERAL CHARACTERISTICS

This specification covers minimum-wall-thickness, seamless and electric-resistance welded, low-alloy steel tubes for pressure containing parts such as economizers or other applications where corrosion resistance is important. The tubing sizes and thicknesses usually furnished to this specification are 1/2 to 5 in. [12.7 to 127 mm] in outside diameter and 0.035 to 0.500 in. [0.9 to 12.7 mm] inclusive, in minimum wall thicknesses. [ASTM SA 423 Tube](#) 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 1/4 in. [3.2 mm] in inside diameter or 0.015 in. [0.4 mm] in thickness.

MANUFACTURING:

Tubes made by the seamless process may be hot finished or cold finished.

ASTM SA 423 CHEMICAL COMPOSITION FOR TUBE:

Designation	Grade		%C	%Mn	%Ni	%S	%P	%Si	%Cu	%Cr
ASTM SA 423 Tube	1	Min	--	--	0.20	--	0.06	0.10	0.20	0.24
		Max	0.15	0.55	0.70	0.060	0.16	--	0.60	1.31

MECHANICAL PROPERTIES OF ASME SA 423 TUBE:

Mechanical properties	UTS ksi (MPa)	YS ksi (MPa)	%EL	Hardness (HRB)
ASME SA 423	415	255	25	≤ 87

HEAT TREATMENT:

All tubes shall be normalized or given such heat treatment as may be necessary to conform to the requirements of this specification.

For more details visit: [ASME SA 423 Tube Supplier](#)

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