

ASTM SA 423 TUBE SPECIFICATIONS

GENERAL CHARACTERISTICS:

This specification covers low-alloy steel tubes with a minimum wall thickness that are seamless, erw-welded, and used in other applications where corrosion resistance is crucial, such as economizers. The tubing sizes and thicknesses that are typically supplied to this standard range from 0.035 to 0.500 in. [0.9 to 12.7 mm] in minimum wall thickness and from 1/2 to 5 in. [12.7 to 127 mm] in outer diameter. Other sized [ASTM SA 423 tubes](#) are acceptable as long as they meet all other specifications for this specification. Tubing with an internal diameter or thickness less than 1/4 in. [3.2 mm] or 0.015 in. [0.4 mm] is exempt from the standards for mechanical properties.

MECHANICAL PROPERTIES OF ASTM SA 423 TUBE:

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

HEAT TREATMENT:

To meet the criteria of this specification, all tubes must be normalised or given the appropriate heat treatment.

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

MANUFACTURING:

The seamless technique can produce tubes with either a hot or cold finish.

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

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