

A/SA 320M L43

ALLOY STEEL

HIGH TENSILE

BOLTING MATERIAL FOR LOW TEMPERATURE SERVICE

A/SA 320M covers alloy steel bolting materials for pressure vessels, valves, flanges and fittings for low- temperature service. The term "bolting material" as used in this specification covers rolled, forged, or strain hardened bars, bolts, screws, studs and stud bolts. The bars shall be hot-wrought. A/SA 320M covered several grades, including both ferritic and austenitic steels designated L7, B8, etc. Selection will depend on design, service conditions, mechanical properties and low-temperature characteristics. A/SA 320M expressed in both inch-pound units and in SI units. The values stated in either inch-pound units or SI units are to be regarded separately as standard.

Chemical Properties

Impact Properties

C	Si	Mn	P	S	Cr	Mo	Ni	Joules	Temperature
0.38-0.43	0.15-0.35	0.60-0.85	0.035 Max	0.040 Max	0.70-0.90	0.20-0.30	1.65-2.00	27	-101°C

Mechanical Properties

Yield strength	Tensile strength	Elongation	Reduction
Mpa	Mpa	%	%
min	min	min	min
725	860	16	50

Heat Treatment

Quenched & Tempered @620°C min.

Equivalent Designation

UNS AISI 4340
EN number
EN Name
W.Nr.
SS
AFNOR



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