

ASTM A 320M L7B

ALLOY STEEL

BOLTING MATERIAL AS PER ASTM/ASME STANDARDS

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.

ASTM A 320M L7B Chemical Properties

Impact Properties

C	Si	Mn	P	S	Cr	Mo	Joules	Temperature
0.35-0.40	0.15-0.35	0.70-0.90	0.035 Max	0.040 Max	0.80-1.10	0.15-0.25	27	-101°C

ASTM A 320M L7B Mechanical Properties

Yeild strength	Tensile strength	Elongation	Reduction
Min 0.2% Mpa	Min Mpa	Min %	Min %
725	860	16	50

ASTM A 320M L7B Heat Treatment

Quenched & Tempered @620°C min.

ASTM A 320M L7B Equivalent Designation

UNS AISI 4137

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