

ASTM A 320M L1

ALLOY STEEL

BOLTING MATERIAL AS PER ASTM/ASME STANDARDS

ASTM A 320M L1 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. ASTM A 320M L1 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. ASTM A 320M L1 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 L1 Chemical Properties

Impact Properties

C	Si	Mn	P	S	B	Joules	Temperature
0.17-0.24	0.15-0.30	0.70-1.40	0.035 Max	0.050 Max	0.001-0.003	54	-73°C

ASTM A 320M L1 Mechanical Properties

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

ASTM A 320M L1 Heat Treatment

Quenched & Tempered @620°C min.

ASTM A 320M L1 Equivalent Designation

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