

ASTM A 320M L7

ALLOY STEEL

BOLTING MATERIAL AS PER ASTM/ASME STANDARDS

ASTM A 320M L7 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 L7 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 L7 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 L7 Chemical Properties

Impact Properties

C	Si	Mn	P	S	Cr	Mo	Joules	Temperature
0.38-0.48	0.15-0.35	0.75-1.00	0.035 Max	0.040 Max	0.80-1.10	0.15-0.25	27	-101°C

ASTM A 320M L7 Mechanical Properties

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

ASTM A 320M L7 Heat Treatment

Quenched & Tempered @4800C.

ASTM A 320M L7 Equivalent Designation

UNS AISI 4140/4142/4145
W.Nr. 1.7225

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