

ASTM A 320M L7M

ALLOY STEEL

BOLTING MATERIAL AS PER ASTM/ASME STANDARDS

ASTM A 320M L7M 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 L7M 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 L7M 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 L7M 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	-73°C

ASTM A 320M L7M Mechanical Properties

Yield strength	Tensile strength	Elongation	Reduction	Hardness
Min 0.2% Mpa	Min Mpa	Min %	Min %	HRB Max
550	690	18	50	235

ASTM A 320M L7M Heat Treatment

Quenched & Tempered @620°C min.

ASTM A 320M L7M Equivalent Designation

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

CUSTOMER ASSISTANCE : customer@TorqBolt.com

#4/217, Deccan Bank Bldg,
R. R. Roy Road, Mumbai – 400 004,
Maharashtra, INDIA

Email: info@TorqBolt.com
Web: www.TorqBolt.com

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