

## ASTM A 320M L72

# ALLOY STEEL

BOLTING MATERIAL AS PER ASTM/ASME STANDARDS

ASTM A 320M L72 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 L72 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 L72 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 L72 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	-73°C

### ASTM A 320M L72 Mechanical Properties

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

### ASTM A 320M L72 Heat Treatment

Quenched & Tempered @620°C min.

### ASTM A 320M L72 Equivalent Designation

UNS AISI 4137

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