

ASTM A 320M L7A

ALLOY STEEL

BOLTING MATERIAL AS PER ASTM/ASME STANDARDS

ASTM A 320M L7A 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 L7A 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 L7A 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 L7A Chemical Properties

Impact Properties

| C | Si | Mn | P | S | Mo | Joules | Temperature |
|-----------|-----------|-----------|-----------|-----------|-----------|--------|-------------|
| 0.35-0.40 | 0.15-0.35 | 0.70-0.90 | 0.035 Max | 0.040 Max | 0.20-0.30 | 27 | -101°C |

ASTM A 320M L7A Mechanical Properties

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

ASTM A 320M L7A Heat Treatment

Quenched & Tempered @620°C min.

ASTM A 320M L7A Equivalent Designation

UNS AISI 4037

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