

ASTM A 320M B8P

STAINLESS STEEL

CLASS 1

BOLTING MATERIAL AS PER ASTM/ASME STANDARDS

ASTM A 320M B8P Class 1 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 B8P Class 1 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 B8P Class 1 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 B8P Class 1 Chemical Properties

| C | Si | Mn | P | S | Cr | Ni |
|----------|----------|----------|-----------|-----------|-----------|-----------|
| 0.08 Max | 1.00 Max | 2.00 Max | 0.045 Max | 0.030 Max | 17.0-19.0 | 11.0-13.0 |

ASTM A 320M B8P Class 1 Mechanical Properties

| Yeild strength | Tensile strength | Elongation | Reduction | Hardness |
|----------------|------------------|------------|-----------|----------|
| Min 0.2% Mpa | Min Mpa | Min % | Min % | HRB Max |
| 205 | 515 | 30 | 50 | 223 |

ASTM A 320M B8P Class 1 Heat Treatment

Carbide Solution Treated

ASTM A 320M B8P Class 1 Equivalent Designation

UNS S30500

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