

M A T E R I A L G R A D E D A T A S H E E T

ASTM A 320M B8C

STAINLESS STEEL

CLASS 1

BOLTING MATERIAL AS PER ASTM/ASME STANDARDS

ASTM A 320M B8C 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 B8C 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 B8C 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 B8C Class 1 Chemical Properties

C	Si	Mn	P	S	Cr	Ni	Cb+Ta
0.08 Max	1.00 Max	2.00 Max	0.045 Max	0.030 Max	17.0-19.0	9.0-12.0	0.80 Min

ASTM A 320M B8C Class 1 Mechanical Properties

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

ASTM A 320M B8C Class 1 Heat Treatment

Carbide Solution Treated

ASTM A 320M B8C Class 1 Equivalent Designation

UNS S34700

W.Nr. 1.4550

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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