

ASTM A 193 Gr.B8P

STAINLESS STEEL

BOLTING MATERIAL FOR LOW TEMPERATURE SERVICE

ASTM A 193 Gr.B8P covers alloy and stainless steel bolting material for pressure vessels, valves, flanges, and fittings for high-temperature service. The term bolting material as used in this specification covers bars, bolts, screws, studs, stud bolts, and wire. Bars and wire shall be hot-wrought. The material may be further processed by centerless grinding or by cold drawing. Austenitic stainless steel may be carbide solution treated or carbide solution treated and strain-hardened.

Chemical Properties

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

Mechanical Properties

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

Heat Treatment

Carbide Solution Treated

Equivalent Designation

UNS S30500
Din X5CrNi 18 12
Werkstoff.No. 1.4303
JIS SUS 305
AFNOR Z10 CN 18.9M

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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