

ASTM A 193 Gr.B8M

STAINLESS STEEL

BOLTING MATERIAL FOR LOW TEMPERATURE SERVICE

ASTM A193 Gr.B8M is similar to B8 fasteners except with added Molybdenum. It has better corrosion resistance than B8. Hex Bolts, studs and other fasteners are common to the B8M spec. ASTM A193 Gr.B8M stud bolts, which is made from austenitic steels is made from an alloy of 18% chromium, 10%nickel, and 2% molybdenum. This alloy is also similarly known as AISI type 316 stainless steel fasteners.

Chemical Properties

C	Si	Mn	P	S	Cr	Mo	Ni
0.08 Max	1.00 Max	2.00 Max	0.045 Max	0.030 Max	16.0-18.0	2.00-3.00	10.0-14.0

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 S31600
 EN number 58H,58J
 EN Name X5CrNiMo17-12-2
 Werkstoff.No. 1.4401
 JIS SUS316
 BS 316S31

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