

ASTM A 193 Gr.B8T

STAINLESS STEEL

BOLTING MATERIAL FOR LOW TEMPERATURE SERVICE

ASTM A193 Gr.B8T is a titanium stabilized austenitic stainless steel with good general corrosion resistance. It has excellent resistance to intergranular corrosion after exposure to temperatures in the chromiumcarbide solution treated and strain hardened precipitation. range of 800 – 1500°F (427 – 816°C). The alloy resists oxidation to 1500°F (816°C) and has higher creep and stress rupture properties than alloys 304 and 304L. It also possesses good low temperature toughness. ASTM A193 Gr.B8T cannot be hardened by heat treatment, only by cold working. It can be easily welded and processed by standard shop fabrication practices.

Chemical Properties

C	Si	Mn	P	S	Cr	Ni	Ti
0.08 Max	1.00 Max	2.00 Max	0.045 Max	0.030 Max	17.0-19.0	9.0-12.0	0.70 Max

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 S32100
Gost 08X18H10T
Din X6CrNiTi18-10
Werkstoff.No. 1.4541
AFNOR X6CrNiTi18-10
BS 321 S 12

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