

ASTM A 193 Gr.B6X

STAINLESS STEEL

HIGH TENSILE

BOLTING MATERIAL FOR LOW TEMPERATURE SERVICE

ASTM A193 Gr.B6X is a high-temperature ferritic stainless steel (UNS 41000, 410 stainless steel) bolting specification for extreme applications in heavy industry. ASTM A194 Grade 6 nuts (UNS 41000, 410 stainless steel) are the corresponding nut. ASTM A 193 Gr.B6X studs and Grade B6X heavy hex. The slightly different grade of stainless can help with galling in certain applications. These specs are typically found in flanged piping applications with corrosive elements present under high temperatures.

Chemical Properties

C	Si	Mn	P	S	Cr
0.15 Max	1.00 Max	1.00 Max	0.040 Max	0.03 Max	11.5-13.5

Mechanical Properties

Yeild strength	Tensile strength	Elongation	Reduction	Hardness
Min 0.2% Mpa	Min Mpa	Min %	Min %	HRB Max
485	620	16	50	262

Heat Treatment

Hardened @850°C & Tempered @650°C

Equivalent Designation

UNS S41000
En name X12Cr13
W.Nr. 1.4006
AFNOR Z 10 C 13

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