

ASTM A 193 Gr.B6

STAINLESS STEEL

HIGH TENSILE

BOLTING MATERIAL FOR LOW TEMPERATURE SERVICE

ASTM A193 Gr.B6 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. Another common nut used is ASTM A194 Grade 6F (UNS S41600, 416 stainless steel). 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. This has the ASTM A193 chemistry as AISI type 410 stainless steel, but it is heat treated. 110,000 PSI tensile strength.

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

Yield strength	Tensile strength	Elongation	Reduction
Min 0.2% Mpa	Min Mpa	Min %	Min %
585	760	15	50

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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