

ASTM A193 Grade B6 is a material specification for 12% chromium-alloyed Ferritic steel, used for manufacturing of bolts, studs, stud bolts and other fasteners for bolting pressure vessels, valves, flanges and fittings for various process industries across major industrial sectors.



## Chemical Composition (12% Chromium Steel, AISI 410, UNS S41000)

Element	C	Mn	P	S	Si	Cr
Min	0.08	...	...	...	...	11.50
Max	0.15	1.00	0.040	0.030	1.00	13.50

## Mechanical Properties

Size (Diameter, Inches) ==>	4 and under
Ultimate Tensile Strength, ksi	110
0.2% Yield strength, ksi	85
% Elongation (min)	15
% Reduction of Area (min)	50
Hardness HBW (max)	Not Defined
Minimum Tempering Temperature, °C	1100



## Products

Bolts	Studs	Screws	Bars
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