

## ASTM A 193 Gr.B7

# ALLOY STEEL

HIGH TENSILE

BOLTING MATERIAL FOR LOW TEMPERATURE SERVICE

ASTM A193 Gr.B7 Class Bolts are manufactured from AISI 4140/4142 low Carbon Alloy Steel Grades followed by quenching & tempering. We manufacture these Bolts with great precision & Quality. These grade bolts are also denoted as Grade 7 Bolts, B7 Bolts etc Chromium Molybdenum steel, normally AISI 4140, heat treated to 28-32 Rockwell Hardness, 125,000 PSI tensile strength, 105,000 PSI yield. It will hold its strength to 1000 degrees F.

### Chemical Properties

C	Si	Mn	P	S	Cr	Mo
0.37-0.49	0.15-0.35	0.65-1.10	0.035 Max	0.040 Max	0.75-1.20	0.15-0.25

### Mechanical Properties

Yield strength	Tensile strength	Elongation	Reduction	Hardness
Min 0.2% Mpa	Min Mpa	Min %	Min %	HRB Max
720	860	16	50	321

### Heat Treatment

Hardened @850°C & Tempered @650°C

### Equivalent Designation

UNS G41400  
W.Nr. 1.7225  
SS 2378\*  
AFNOR Z1 CNDU 20.18.06AZ\*

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