

ASTM A193 Grade B7 is a material specification for low alloy chromium-molybdenum 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 (Chromium Molybdenum Steel, AISI 4140/AISI 4142)

Element	C	Mn	P	S	Si	Cr	Mo
Min	0.36	0.65			0.15	0.75	0.15
Max	0.49	1.10	0.035	0.040	0.35	1.20	0.25

Mechanical Properties

Size (Diameter, Inches) ==>	2 1/2 and under	over 2 1/2 to 4	over 4 to 8
Ultimate Tensile Strength, ksi (Mpa)	125 (860)	115 (760)	110 (690)
0.2% Yield strength, ksi (Mpa)	105 (720)	75 (655)	80 (515)
% Elongation (min)	16	16	18
% Reduction of Area (min)	50	50	50
Hardness HBW (max)	321 HBW / 35HRC	321 HBW / 35HRC	321 HBW / 35HRC
Minimum Tempering Temperature, °C (°F)	1100 (593)	1100 (593)	1100 (593)



Products

Bolts	Studs	Screws	Bars
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