

ASTM A320 Grade L7 is a material specification 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 in **low temperature** applications services.



Chemical Composition (Chromium Molybdenum Steel, AISI 4140/AISI 4142)

Element	C	Mn	P	S	Si	Cr	Mo
Min	0.38	0.75			0.15	0.80	0.15
Max	0.48	1.00	0.035	0.040	0.35	1.10	0.25

Mechanical Properties (Quenched & Tempered Steel, AISI 4140/AISI 4142)

Size (Diameter, Inches) ==>	2 1/2 and under	Impact Test Requirement	
Ultimate Tensile Strength, ksi (Mpa)	125 (860)	Specimen Size	10mm x 10mm
0.2% Yield strength, ksi (Mpa)	105 (720)	Average of each set of 3 specimen, ft-lbf (J)	20 (27)
% Elongation (min)	16	Minimum of 1 specimen, ft-lbf (J)	15 (20)
% Reduction of Area (min)	50		
Hardness HBW (max)	321 HBW / 35HRC		
Tempering Temperature, °C (°F)	1100 (593)		



Products

Bolts	Studs	Screws	Bars
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We are India's premium industrial fasteners manufacturer providing precision build fastening solution for various industrial platforms, throughout the globe. Specialised in high alloyed & ASTM Fasteners.

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