



ASTM A320 GR L7

Chromium Molybdenum Alloy Steel

ASTM A320 Grade L7 is a material specification chromiummolybdenum 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 (Carbon Steel) %

Element	C	Cr	Mn	Ni	P	S	MO	SI
Min	0.38	0.8	0.75				0.15	0.15
Max	0.48	1.1	1		0.035	0.04	0.25	0.35

Mechanical Properties

Size Diameter (INCH) ==>		2 1/2 and under	Impact Test Requirement	
Ultimate Tensile Strength, ksi		125 (860)		
0.2% Yield strength, ksi (Mpa)		105 (720)	Specimen Size	10mm x 10mm
% Elongation (min)		16	Average of each set of 3 specimen, ft-lbf (J)	20 (27)
% Reduction of Area (min)		50		
Hardness HRC		35	Minimum of 1 specimen, ft-lbf (J)	15 (20)
Description/s		THREAD ROD		
Size		3/8" to 4",M12-M90		
Surface Treatment		PLAIN ,Corroshield PTFE, COLD GALVANIZED , HDG, ZINC...		
Thread spec		ASME B1.1/ASME B1.13M		
Dimensional Specs		ASME B18.31.2/B18.31.1M		

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