

ASTM A194 Grade 7 is a standard material specification for high tensile nuts and other internally threaded fasteners, made from chrome molybdenum alloy steel type 4140, 4142, etc.,. Grade 7 nuts can be produced by means of hot forging, cold forging or machining from heat treated bar stock. ASTM A194 specification covers requirements for chemical composition, heat treatment, hardness, proof load, etc., for Grade 7 nuts.



Chemical Composition (Carbon Steel)

Element	C	Mn	P	S	Si	Cr	Mo
Min	0.37	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 (INCH) ==>		All Sizes
Completed Nuts	BHN	248 - 327
	HRC	24 - 35
Sample Nut After Heat Treatment	BHN, min	201
	HRB, min	94



Products

Nuts Internal Threaded Parts

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