



ASTM A194 Gr 7

Chrome Molybdenum Alloy Steel Nuts

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	Cr	Mn	Ni	P	S	MO	SI
Min	0.37	0.75	0.65				0.15	0.15
Max	0.49	1.2	1.1		0.035	0.04	0.25	0.35

Mechanical Properties

Size Diameter (INCH) ==>		All size	
Completed Nuts	BHN	248-327	
	HRC	24-35	
Sample Nut After Heat Treatment	BHN, min	201	
	HRB, min	94	
Description/s		HEAVY HEX NUT	
Size		3/8" to 4"	
Surface Treatment		PLAIN ,Corroshield PTFE, COLD GALVANIZED , HDG, ZINC...	
Thread spec		ASME B1.1	
Dimensional Specs		ASME B18.2.2	

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