



ASTM A194 /A194M Gr 2H

CARBON STEEL NUT

ASTM A194 Grade 2H defines the material requirements for high-tensile carbon steel nuts and internally threaded fasteners. This specification encompasses chemical composition, heat treatment, hardness, and proof load, applicable to nuts manufactured via hot forging, cold forging, or machining from heat-treated bar stock.



Chemical Composition (Carbon Steel) %

Element	C	Mn	P	S	SI
Min	0.15				
Max		1	0.04	0.05	0.4

Mechanical Properties

Size Diameter (INCH) ==>		To 1-1/2 Inch, inclusive		Over 1-1/2" Inch.
Completed Nuts	BHN	248 - 327		212 - 327
	HRC	24 - 35		35 max
Sample Nut after Heat-Treatment	BHN, min	179		147
	HRB, min	89		79
Description/s		HEAVY HEX NUT		
Size		3/8" to 4"	M12-M100	
Surface Treatment		Corroshield PTFE, HDG, Cold galvanized , Zinc.....		
Thread spec		ASME B1.1	ASME B1.13M	
Dimensional Specs		ASME B18.2.2	ASME B18.2.4.6M	

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