

ASTM A 194M 2H

ALLOY STEEL

NUT MATERIAL FOR HIGH TEMPERATURE SERVICE

ASTM A 194M 2H Heavy Hex Nut is widely considered the workhorse of the industrial fastener world. Designed to be used with class 2A studs or bolts in high-pressure/high-temperature applications, the 2H Heavy Hex Nut represents an economical solution where strength and cost are paramount. The Heavy Hex Nut is made of carbon alloy with a class2B fit. The high carbon content of the Heavy Hex Nut provides for additional strength. While the product is not particularly corrosion resistant, the Heavy Hex Nut may be plated for additional protection against weathering and dilation. The mechanical properties of the 2H Heavy Hex Nut are essentially identical to the DH nut, allowing their direct substitution for each other.

Chemical Properties

C	Si	Mn	P	S
0.40 Min	0.40 Max	1.00 Max	0.040 Max	0.050 Max

Mechanical Properties

Proof Load Using Threaded Mandrel- METRIC (kN)

Hardness

TYPE	M6	M8	M10	M12	M14	M16	BHN	HRB	HRC
HEAVY HEX	29.2	44.1	69.9	101.6	138.6	189.2		Min	
HEX	20.8	37.9	60	87.3	119	162.5	248-352	-	24-38

TYPE	M20	M22	M24	M27	M30	M36
HEAVY HEX	295.2	365.1	425.4	553.4	676	984.5
HEX	253.6	313.6	365.4	475.1	580.6	845.6

Heat Treatment

Quenched & Tempered@455°C.

Equivalent Designation

UNS K04002

W.Nr. 1.1191

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