

ASTM A 194M 7

ALLOY STEEL

NUT MATERIAL FOR HIGH TEMPERATURE SERVICE

A/SA 194M 7 specification covers alloy steel Type Molybdenum-chromium hexagon nut intended for use with bolts or stud bolts. ASTM A194M 7 where high temperature and/ or high-pressure service. It is typically compatible to use with Bolts ASTM A193 Gr.7 where low temperature is required. Heat-treated and annealed at minimum temperature of 1,100 °F (595 °C).

Chemical Properties

C	Si	Mn	P	S	Cr	Mo
0.37-0.49	0.15-0.35	0.65-1.10	0.035 Max	0.04 Max	0.75-1.20	0.15-0.25

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@595°C.

Equivalent Designation

UNS G41400
W.Nr. 1.7225

CUSTOMER ASSISTANCE : customer@TorqBolt.com