

ASTM A 194M 4

ALLOY STEEL

NUT MATERIAL FOR HIGH TEMPERATURE SERVICE

ASTM A 194M 4 specification covers alloy steel intended for use with bolts or stud bolts. ASTM A194M 4 where high temperature and/or high-pressure service is required. It is typically compatible to use with Bolts 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	Mo
0.40-0.50	0.15-0.35	0.70-0.90	0.035 Max	0.040 Max	0.20-0.30

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 K14510

CUSTOMER ASSISTANCE : customer@TorqBolt.com