

ASTM A 194M 8MLN

STAINLESS STEEL

NUT MATERIAL FOR HIGH TEMPERATURE SERVICE

ASTM A 194M 8MLN is AISI 316N with restricted carbon, ASTM A 194M 8MLN is – Specification for carbon and alloy steel nuts for bolts for high-pressure or high-temperature service, or both. Its scope covers a variety of carbon, alloy and martensitic stainless steel nuts in the size range M6 through M100 nominal. It also covers austenitic stainless steel nuts in the size range M6 nominal and above.

Chemical Properties

C	Si	Mn	P	S	Cr	Mo	Ni	N
0.030 Max	1.00 Max	2.00 Max	0.045 Max	0.030 Max	16.0-18.0	2.00-3.00	10.0-13.0	0.01-0.16

Mechanical Properties

Proof Load Using Threaded Mandrel- METRIC (kN)

Hardness

TYPE	M6	M8	M10	M12	M14	M16	BHN	HRB	HRC
HEAVY HEX	11.1	20.1	31.9	46.4	63.3	86.4			
HEX	10.4	18.8	29.9	43.4	59.2	80.9	126-300	60-105	-

TYPE	M20	M22	M24	M27	M30	M36
HEAVY HEX	134.8	166.7	194.2	252.5	308.6	449.4
HEX	126.2	156	181.8	236.4	288.9	420.8

Heat Treatment

Carbide Solution Treated.

Equivalent Designation

UNS S31653

Werkstoff no 1.4429

CUSTOMER ASSISTANCE : customer@TorqBolt.com