ASTM A194 GR 8M NUT

AUSTENITIC STEEL

(TYPE 316 SS)

MECHANICAL PROPERTIES

DIAMETER	MINIMUM TEMPERING TEMPERATURE F	PROOFLOAD USING THREADED MANDREL LBF BASED ON PROOF STRESS OF 80,000 PSI *	HARDNESS, MAX
½-13	850	11,350	126-300 HB OR 32 MAX HRC
5/8-11	850	18,080	126-300 HB OR 32 MAX HRC
¾-10	850	26,720	126-300 HB OR 32 MAX HRC
7/8-9	850	36,960	126-300 HB OR 32 MAX HRC
1-8	850	48,480	126-300 HB OR 32 MAX HRC
1-1/8-8	850	63,200	126-300 HB OR 32 MAX HRC
1-1/4-8	850	80,000	126-300 HB OR 32 MAX HRC
1-3/8-8	850	98,640	126-300 HB OR 32 MAX HRC
1-1/2-8	850	119,360	126-300 HB OR 32 MAX HRC

* PROOFLOADS ARE NOT DESIGN LOADS

CHEMICAL PROPERTIES

ELEMENT	MAXIMUM UNLESS MINIMUM OR RANGE ARE INDICATED
CARBON %	0.08
MANGANESE %	2.00
PHOSPHORUS %	0.045
SULFUR %	0.030
SILICON %	1.00
CHROMIUM %	16.0-18.0
NICKEL %	10.0-14.0
MOLYBDENUM	2.00-3.00

GR 8M NUTS ARE INTENDED FOR USE IN PRESSURE VESSELS, VALVES, FLANGES, AND FITTINGS FOR HIGH TEMPERATURE OR HIGH PRESSURE SERVICE, OR OTHER SPECIAL PURPOSE APPLICATIONS. GR 8M NUTS ARE SUPPLIED IN A HEAVY PATTERN PER ASME B18.2.2 STANDARD FOR SQUARE AND HEX NUTS. GR 8M NUTS ARE NORMALLY USED WITH B8M BOLTS AND STUDS.*NOTE: PROPERTIES AND APPLICATION PARAMETERS ARE TYPICAL AND ARE PRESENTED IN GOOD FAITH BUT NO WARRANTY IS EXPRESSED OR IMPLIED.*