

ASTM A 194M 8TA

STAINLESS STEEL

NUT MATERIAL FOR HIGH TEMPERATURE SERVICE

ASTM A 194M 8TA Hexagonal Nut made of stainless steel, Manufactured in accordance ASTM standard to use with Bolts or Stud Bolts. ASTM A193 B8TA for rustproof and corrosive resistant. It is manufactured for used in high temperature service and it is compatible to use with ASTM A320 Gr.B8TA in low temperature service. Compose of Nickel substance enables of toughness and best of polishing, it is also acid/base corrosive resistant but it non resistant for concentratelike acid like niter. ASTM A 194M 8TA Best for electro -magnet when mix with Nickel. Compose of chromium substance enables of corrosive & erosion resistant. In addition compose of Titanium enables corrosive resistant when high temperature upto 400oC is required. High elongation like steel ,but provide you more strength at high temperature. Solution annealed in finished condition.

Chemical Properties

| C | Si | Mn | P | S | Cr | Ni | Ti |
|----------|----------|----------|-----------|-----------|-----------|----------|----------|
| 0.08 Max | 1.00 Max | 2.00 Max | 0.045 Max | 0.030 Max | 17.0-19.0 | 9.0-12.0 | 0.70 Max |

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 | 126-192 | 60-90 | - |

| 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 in the finished condition.

Equivalent Designation

UNS S32100
W.Nr. 1.4541

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