

ASTM A 193 Gr.B8TA

STAINLESS STEEL

BOLTING MATERIAL FOR LOW TEMPERATURE SERVICE

ASTM A193 Gr.B8TA is a titanium stabilized austenitic stainless steel with good general corrosion resistance. It has excellent resistance to intergranular corrosion after exposure to temperatures in the chromiumcarbide solution treated and strain hardened precipitation. range of 800 – 1500°F (427 – 816°C). The alloy resists oxidation to 1500°F (816°C) and has higher creep and stress rupture properties than alloys 304 and 304L. It also possesses good low temperature toughness. ASTM A193 Gr.B8TA cannot be hardened by heat treatment, only by cold working. It can be easily welded and processed by standard shop fabrication practices.

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

| Yield strength | Tensile strength | Elongation | Reduction | Hardness |
|----------------|------------------|------------|-----------|----------|
| Min 0.2% Mpa | Min Mpa | Min % | Min % | HRB Max |
| 205 | 515 | 30 | 50 | 192 |

Heat Treatment

Carbide Solution Treated in the finished condition.

Equivalent Designation

UNS S32100
Gost 08X18H10T
Din X6CrNiTi18-10
Werkstoff.No. 1.4541
AFNOR X6CrNiTi18-10
BS 321 S 12

CUSTOMER ASSISTANCE : customer@TorqBolt.com

#4/217, Deccan Bank Bldg,
R. R. Roy Road, Mumbai – 400 004,
Maharashtra, INDIA

Email: info@TorqBolt.com
Web: www.TorqBolt.com

Copyright 2013 Torqbolt Inc.