

ASTM A 193 Gr.B8MLCuN

STAINLESS STEEL

BOLTING MATERIAL FOR LOW TEMPERATURE SERVICE

ASTM A193 Gr.B8MLCuN is a high molybdenum austenitic stainless steel specification. Its high molybdenum content combined with elements such as nickel and copper gives excellent resistance to pitting and crevice corrosion. In acids containing halides it offers good resistance to uniform corrosion and is superior to other austenitic stainless steel grades. ASTM A193 Gr.B8MLCuN Specifies the mechanical properties of bolts, screws and nuts made of austenitic stainless steels for high temperature or high pressure service and other special purpose applications. carbide solution treated

Chemical Properties

| C | Si | Mn | P | S | Cr | Mo | Ni | Cu | N |
|-----------|----------|----------|-----------|-----------|-----------|---------|-----------|-----------|-----------|
| 0.020 Max | 0.80 Max | 1.00 Max | 0.030 Max | 0.010 Max | 19.5-20.5 | 6.0-6.5 | 17.5-18.5 | 0.50-1.00 | 0.18-0.22 |

Mechanical Properties

| Yield strength | Tensile strength | Elongation | Reduction | Hardness |
|----------------|------------------|------------|-----------|----------|
| Min 0.2% Mpa | Min Mpa | Min % | Min % | HRB Max |
| 240 | 550 | 30 | 40 | 223 |

Heat Treatment

Carbide Solution Treated

Equivalent Designation

UNS S31254
Din X1 CrNiMoCuN 20 18 17
Werkstoff no 1.4547
AFNOR Z 1 CNDU 20-18-6Az

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.