

ASTM A 193 Gr.B8M

STAINLESS STEEL

CLASS 1D

BOLTING MATERIAL FOR LOW TEMPERATURE SERVICE

ASTM A193 Gr.B8M Class 1D Bolts are manufactured from AISI 316 Stainless Steel carbide solution treated. We manufacture these Bolts with great precision & Quality. These ASTM A 193 Gr.B8M Class 1D Bolts are also noted as B8M Bolts. ASTM A193 Gr.B8M Class 1D is similar to B8 fasteners except with added Molybdenum. It has better corrosion resistance than B8. Hex Bolts, studs and other fasteners are common to the B8M spec. It is made from austenitic steels is made from an alloy.

Chemical Properties

| C | Si | Mn | P | S | Cr | Ni |
|----------|----------|----------|-----------|-----------|-----------|----------|
| 0.08 Max | 1.00 Max | 2.00 Max | 0.045 Max | 0.030 Max | 18.0-20.0 | 8.0-11.0 |

Mechanical Properties

| Yield strength | Tensile strength | Elongation | Reduction | Hardness |
|----------------|------------------|------------|-----------|----------|
| Min 0.2% Mpa | Min Mpa | Min % | Min % | HRB Max |
| 205 | 515 | 30 | 50 | 96 |

Heat Treatment

Carbide Solution Treated.

Equivalent Designation

UNS S31600
 EN number 58H,58J
 EN Name X5CrNiMo17-12-2
 Werkstoff.No. 1.4401
 JIS SUS316
 BS 316S31

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