

ASTM A 193 Gr.B8MLN

STAINLESS STEEL

CLASS 1D

BOLTING MATERIAL FOR LOW TEMPERATURE SERVICE

ASTM A193 Gr.B8MLN Class 1D is a lowcarbon, nitrogen-enhanced version of Type 316 molybdenum-bearing austenitic stainless steel. The Type 316 alloys are more resistant to general corrosion and pitting/crevice corrosion than the conventional chromium-nickel austenitic stainless steels such as Type 304. They also offer higher creep, stress-rupture and tensile strength at elevated temperature. The nitrogen in Type 316LN adds additional resistance to sensitization in some circumstances. ASTM A193 Gr. B8MLN Class 1D are also used for conveying fluids under extreme temperatures in heat transfer process equipment like boilers, heaters, heat exchangers, condensers and others.

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 S31653
Din X6 CrNiMoN 17 2 2
Werkstoff.No. 1.4406
Jis sus316
AFNOR Z 2 CND 17.12

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