

ASTM A 193 Gr.B8MN

STAINLESS STEEL

CLASS 1B

BOLTING MATERIAL FOR LOW TEMPERATURE SERVICE

ASTM A193 Gr.B8MN Class 1B is the standard molybdenum-bearing grade, second in importance to ASTM A193 Gr.B8MN Class 1B is amongst the austenitic stainless steels Carbide solution treated in the finished condition. The molybdenum gives 316N better overall corrosion resistant properties than Grade 304, particularly higher resistance to pitting and crevice corrosion in chloride environments. It has excellent forming and welding characteristics

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
240	550	30	40	96

Heat Treatment

Carbide Solution Treated

Equivalent Designation

UNS S31651
En number X2CrNiMoN17-11-2
Werkstoff no 1.4406
SS 316N

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