

## ASTM A 193 Gr.B8MLCuN

# STAINLESS STEEL

### CLASS 1D

BOLTING MATERIAL FOR LOW TEMPERATURE SERVICE

ASTM A193 Gr.B8MLCuN Class 1D 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 Class 1D 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	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 S31254  
Din X1 CrNiMoCuN 20 18 17  
Werkstoff no 1.4547  
AFNOR Z 1 CNDU 20-18-6Az

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