

ASTM A 193 Gr.B8S

STAINLESS STEEL

CLASS 1D

BOLTING MATERIAL FOR LOW TEMPERATURE SERVICE

ASTM A193 Gr.B8S Class 1D also known as Nitronic 60 stainless steel provides a significant lower cost alternative to fight wear and galling compared to cobalt & high nickel alloys. It uniform corrosion resistance exceeds type 304 in most media. Chloride pitting resistance is superior to type 316 and room temperature yield strength is twice that of 304 or 316. Nitronic 60 offers excellent high temperature oxidation resistance and low temperature impact resistance.

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
345	655	35	55	28

Heat Treatment

Carbide Solution Treated In The Finished Condition.

Equivalent Designation

UNS S21800
AMS 5848
NITRONIC 60
Alloy 218
SS 218

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