

ASTM A 193 Gr.B8N

STAINLESS STEEL

CLASS 1B

BOLTING MATERIAL FOR LOW TEMPERATURE SERVICE

ASTM A193 Gr.B8N Class 1B are manufactured from AISI 304 Stainless Steel carbide solution treated with Strain Hardening. Stainless steel ASTM A 193 Gr.B8N Class 1B is the most commonly used stainless steel. Stainless steel grade ASTM A 193 Gr.B8N Class 1B has better corrosion resistance than grade 302, and is mostly non-magnetic in nature; however when cold worked it acquires a slightly magnetic quality.

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 S30451
Din X5 CrNiN 19 9 KT
Werkstoff.No. 1.4315
Jis 304

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