

## ASTM A 193 Gr.B8N

# STAINLESS STEEL

### CLASS 1D

BOLTING MATERIAL FOR LOW TEMPERATURE SERVICE

ASTM A193 Gr.B8N Class 1D are manufactured from AISI 304 Stainless Steel carbide solution treated with Strain Hardening. Stainless steel grade ASTM A 193 Gr.B8N Class 1D is the most commonly used stainless steel. Stainless steel grade ASTM A 193 Gr.B8N Class 1D 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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