

## ASTM A 193 Gr.B8

# STAINLESS STEEL

### CLASS 2B

BOLTING MATERIAL FOR LOW TEMPERATURE SERVICE

ASTM A193 Gr.B8 Class 2B Bolts are manufactured from AISI 304 Stainless Steel carbide solution treated with Strain Hardening. We manufacture these Bolts with great precision & Quality. ASTM A 193 Gr.B8 Class 2B Bolts are also called B8 Stainless Steel bolts, B8 Bolts Etc. Studs, bolts, and other fasteners found in this grade are considered the same as B8 except strain hardened. This is a cold working process which increases physical properties. 100,000-125,000 PSI Tensile Strength.

#### 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
515	655	25	40	35

#### Physical Properties

Density	Elastic Modulus	Mean Coefficient of Thermal			Thermal Conductivity	Specific Heat	Melting Point	
(Kg/m <sup>3</sup> )	(Gpa)	Expansion(μm/m/°C)			(W/m.K)	0-100°C	Range F	
8060	193	17.9	18.4	18.8	9.4	12.4	503	1398 To 1454

#### Equivalent Designation

UNS S30400  
 EN number 10088-3  
 En name X5CrNi18-10  
 W.Nr. 1.4301  
 B.S 304 S15 – 304 S31  
 AFNOR Z7CN 18-09

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