

ASTM A 193 Gr.B8

STAINLESS STEEL

CLASS 1

BOLTING MATERIAL FOR LOW TEMPERATURE SERVICE

ASTM A193 Gr.B8 Class 1 Bolts are manufactured from AISI 304 Stainless Steel carbide solution treated with Strain Hardening. ASTM A 193 Gr.B8 Class 1 Bolts are also called B8 Stainless Steel bolts, B8 Bolts Etc. 8-8 Grade stainless, non magnetic, good corrosion resistance. 75,000 PSI tensile strength. Same material as AISI type 304 stainless steel

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
205	515	30	50	96

Physical Properties

Density	Elastic Modulus	Mean Coefficient of Thermal			Thermal Conductivity	Specific Heat	Melting Point	
(Kg/m ³)	(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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