

ASTM A 193 Gr.B8

STAINLESS STEEL

CLASS 1D

BOLTING MATERIAL FOR LOW TEMPERATURE SERVICE

ASTM A193 Gr.B8 Class 1D Bolts are manufactured from AISI 304 Stainless Steel carbide solution treated with Strain Hardening. ASTM A193 Gr.B8 Class 1D 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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