

ASTM A 193 Gr.B8CA

STAINLESS STEEL

BOLTING MATERIAL FOR LOW TEMPERATURE SERVICE

ASTM A193 Gr.B8CA is 347 SS (UNS S34700). It is a high-alloy austenitic stainless steel used in extreme applications. It differs from standard B8 with the addition of tantalum and columbium. Fully threaded studs are the most commonly type of supplied ASTM A193 Gr.B8CA fastener, Often hightemp applications involving some sort of high-heat air discharge. ASTM A194 Grade 8C nuts are the common nut specified with ASTM A193 Gr.B8CA

Chemical Properties

C	Si	Mn	P	S	Cr	Ni	Cb+Ta
0.08 Max	1.00 Max	2.00 Max	0.045 Max	0.030 Max	17.0-19.0	9.0-12.0	1.10 Max

Mechanical Properties

Yeild strength	Tensile strength	Elongation	Reduction	Hardness
Min 0.2% Mpa	Min Mpa	Min %	Min %	HRB Max
205	515	30	50	192

Heat Treatment

Carbide Solution Treated in the finished condition.

Equivalent Designation

UNS S34700
EN Name X6CrNiNb18-10
Werkstoff.No. 1.4550
SS 347

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