

ASTM A 193 Gr.B8C

STAINLESS STEEL

CLASS 1

BOLTING MATERIAL FOR LOW TEMPERATURE SERVICE

ASTM A193 Gr.B8C Class 1 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.B8C Class 1 fastener, Often high-temp applications involving some sort of high-heat air discharge. ASTM A194 Grade 8C nuts are the common nut specified with ASTM A193 Gr.B8C Class 1.

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

Heat Treatment

Carbide Solution Treated

Equivalent Designation

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

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