

A/SA 193M B8RA

STAINLESS STEEL

BOLTING MATERIAL FOR HIGH TEMPERATURE SERVICE

A/SA 193M covers alloy and stainless steel bolting material for pressure vessels, valves, flanges and fittings for high-temperature service. The term "bolting material" as used in A/SA 193M covers bars, bolts, screws, studs, stud bolts and wire. Several grades are covered in A/SA 193M including ferritic steels and austenitic stainless steels designated B5,B8, etc. Selection will depend upon design, service conditions, mechanical properties and high-temperature characteristics. A/SA 193M is expressed in both inch-pound units and in SI units.

Chemical Properties

C	Si	Mn	P	S	Cr	Mo	Ni	V	N	Cb+Ta
0.06 Max	1.00 Max	4.0-6.0	0.045 Max	0.030 Max	20.5-23.5	1.50-3.00	11.5-13.5	0.10-0.30	0.20-0.40	0.10-0.30

Mechanical Properties

Yield strength	Tensile strength	Elong	Reduction	Hardness
Mpa	Mpa	%	%	HRC
min	min	min	min	max.
380	690	35	55	271

Heat Treatment

Carbide Solution Treated in the finished condition.

Equivalent Designation

UNS S20910
EN number 1.4547
EN name X1CrNiMoCuN20-18-7
W.Nr. 1.4529**
SS 2378*
AFNOR Z1 CNDU 20.18.06AZ*



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