

A/SA 193M B8RA  
CLASS 1C

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	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	Elong	Reduction	Hardness
Mpa	Mpa	%	%	HRC
min	min	min	min	max.
380	690	35	55	28

**Heat Treatment**

Carbide Solution Treated In The Finished Condition.

**Equivalent Designation**

UNS S30400
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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