

ASME SA193 Grade B5 is a grade specification for 5% Chromium Ferritic Steel with high strength properties, used for manufacturing of bolts, studs, stud bolts and other fasteners for bolting pressure vessels, valves, flanges and fittings, specially for power generation industry.



Chemical Composition (5% Chromium Ferritic Steel)

Element	C	Mn	P	S	Si	Cr	Mo
Min	0.10	4.00	0.40
Max	...	1.00	0.040	0.030	1.00	6.00	0.65

Mechanical Properties

Size (Diameter, Inches) ==>	Upto 4 Inch
Ultimate Tensile Strength, ksi (Mpa)	100 (690)
0.2% Yield strength, ksi (Mpa)	80 (550)
% Elongation (min)	16
% Reduction of Area (min)	50
Hardness HBW (max)	...
Minimum Tempering Temperature, °C (°F)	1100 (593)



Products

Bolts	Studs	Screws	Bars
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