

Bennett Bolt Works, Inc.

Technical Data Sheet: ASTM A307

Jordan, NY
(315)689-3981

The ASTM A307 specification covers carbon steel bolts and studs ranging from 1/4" through 4" diameter. This is your everyday, run of the mill bolt specification often manufactured using A36 round bar. There are three grades A, B, and C* which denote tensile strength, configuration, and application. Refer to the Mechanical Properties Chart for the subtle strength differences within each grade.

A307 Grades

Grade	Tensile, ksi	Yield, min, ksi	Elong %, min
A	60 min	--	18
B	60 - 100	--	18
C*	58 - 80	36	23

**As of August 2007, ASTM A307 Grade C has been replaced by specification F1554 Grade 36.*

A307 Chemical Properties

Element	Grade A	Grade B
Carbon, max	0.29%	0.29%
Manganese, max	1.20%	1.20%
Phosphorus, max	0.04%	0.04%
Sulfur, max	0.15%	0.05%

Recommended Hardware

Nuts			Washers F844
A307 Grades A & C*		A307 Grade B	
1/4 - 1-1/2	1-5/8 - 4	1/4/2004	
A563A Hex	A563A Heavy Hex	A563A Heavy Hex	