

# ASTM A307

## GRADE A

# CARBON STEEL

BOLTING MATERIAL FOR STRUCTURAL PURPOSE

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.

### Chemical Properties

C	Mn	P	S
	Max	Max	Max
0.29	0.90	0.04	0.15

### Mechanical Properties

Tensile strength	Elongation	Hardness
Min Mpa	Min %	BHN
415	18	121-241

### Heat Treatment

Quenched & tempered

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