

# Bennett Bolt Works, Inc.

Technical Data Sheet: ASTM A36

Jordan, NY  
(315)689-3981

This specification covers carbon structural steel shapes, plates, and bars of structural quality for use in riveted, bolted, or welded construction of bridges and buildings, and for general structural purposes. Heat analysis shall be used to determine the required chemical composition for carbon, manganese, phosphorus, sulfur, silicon, and copper. Tensile strength, yield strength, and elongation shall be evaluated using tension test and must conform to the required tensile properties.

Mechanical Properties	
Tensile, ksi	58 - 80
Yield, min ksi	36
Elongation, min % in 2"	20
Elongation, min % in 8"	23

Chemical Requirements				
Thickness, inches	Up to 3/4"	Over 3/4" to 1-1/2"	Over 1-1/2" to 4"	Over 4"
Carbon, max %	0.26	0.27	0.28	0.29
Manganese, %		0.60 - 0.90	0.60 - 0.90	0.60 - 0.90
Phosphorous, max %	0.04	0.04	0.04	0.04
Sulfur, max %	0.05	0.05	0.05	0.05
Silicon, max %	0.4	0.4	0.4	0.4
Copper, min % when copper is specified	0.2	0.2	0.2	0.2