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ASTM A36 Steel, bar

Categories: [Metal](#); [Ferrous Metal](#); [ASTM Steel](#); [Carbon Steel](#); [Low Carbon Steel](#)
Material Steel for general structural purposes including bridges and buildings.

Notes: Minimum Cu content when copper steel is specified.

Key Words: UNS K02600

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

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Physical Properties	Metric	English	Comments
Density	7.85 g/cc	0.284 lb/in ³	
Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	400 - 550 MPa	58000 - 79800 psi	
Tensile Strength, Yield	250 MPa	36300 psi	
Elongation at Break	20.0 %	20.0 %	in 200 mm
	23.0 %	23.0 %	In 50 mm.
Modulus of Elasticity	200 GPa	29000 ksi	
Compressive Yield Strength	152 MPa	22000 psi	Allowable compressive strength
Bulk Modulus	140 GPa	20300 ksi	Typical for steel
Poissons Ratio	0.260	0.260	
Shear Modulus	79.3 GPa	11500 ksi	
Component Elements Properties	Metric	English	Comments
Carbon, C	0.260 %	0.260 %	
Copper, Cu	0.20 %	0.20 %	
Iron, Fe	99.0 %	99.0 %	
Manganese, Mn	0.75 %	0.75 %	
Phosphorous, P	<= 0.040 %	<= 0.040 %	
Sulfur, S	<= 0.050 %	<= 0.050 %	

References for this datasheet.

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's [terms of use](#) regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.

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MSA36A / 14015

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