



ASTM A36 steel plate

ASTM A36 is said to be same as EN S275 steel plate. A36 steel is a very low carbon steel that blends great strength with form ability. It can be safely welded with minimum caution. This structural steel plate can be galvanized to give enhanced corrosion resistance which ensures superior quality.

The application of ASTM A36 steel plate

The ASTM A36 specification is the Standard Specification for Carbon Structural Steel. ASTM A36 steel plate is one of the most widely used carbon structural steels used in the industry. It can be riveted, bolted or welded in the construction of bridges and buildings, and for general structural purposes.

ASTM A36 steel plate Chemical Composition analyze

ASTM A36 belongs to general low carbon steel, steel product with low carbon content less than 0.3%. It is considerably soft for easy forming, machining, welding. Heat treatment has less effect on ASTM A36 steel material. It contains some other elements including alloy element: manganese, sulfur, phosphorus and silicon. Iron and these elements together forms unique mechanical property of ASTM A36, unlike stainless steel with nickel and chromium element, it doesn't show good corrosion resistance. If you need corrosion resistant property, having it painted with a layer of plating is a good choice.

ASTM A36 Hot Rolled Steel Plate	Chemical Composition	
	Element	content
	Carbon, C	0.25 - 0.290 %
	Copper, Cu	0.20 %
	Iron, Fe	98.0 %
	Manganese, Mn	1.03 %

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	Phosphorous, P	0.040 %
	Silicon, Si	0.280 %
	Sulfur, S	0.050 %

ASTM A36 steel plate Physical Property Analyze

Qualified A36 steel product shall have ultimate tensile strengths ranges from 58,000 to 79,800 psi. It is not a exact number for it is affected by its chemical composition and production method. In tensile testing, ASTM A36 steel bar can elongate to around 20% of its original length. It also shows excellent impact strength at room temperature.

Physical Property	Metric	Imperial
Density	7.85 g/cm ³	0.284 lb/in ³

ASTM A36 steel plate Mechanical Property

ASTM A36 Hot Rolled Steel Plate		
Mechanical Properties	Metric	Imperial
Tensile Strength, Ultimate	400 - 550 MPa	58000 - 79800 psi
Tensile Strength, Yield	250 MPa	36300 psi
Elongation at Break (in 200 mm)	20.0 %	20.0 %
Elongation at Break (in 50 mm)	23.0 %	23.0 %
Modulus of Elasticity	200 GPa	29000 ksi
Bulk Modulus (typical for steel)	140 GPa	20300 ksi
Poissons Ratio	0.260	0.260
Shear Modulus	79.3 GPa	11500 ksi

Katalor is the professional Chinese ASTM A36 steel plate supplier .If you need ASTM A36 steel plate , we can put the ASTM A36 steel plate order to our steel mill directly or collect these goods

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from our stock directly if we have enough ex-stock .Besides. if you need any offer or if you want to know the price and any other information about ASTM A36 steel plate price, please be free to contact us.

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specialized in manufacturing and exporting steel and casting product. Based on the domestic rich product resources and professional research on international market, Katalor's service has already spread many countries in Europe, America, Southeast Asia, Middle East, South America, Africa, and so on.

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