



A-36 MILD STEEL

Chemical Composition (Typical Values Weight %)

<u>C</u>	<u>S</u>	<u>P</u>	<u>Si</u>	<u>Mn</u>	<u>Cu</u>
0.27	0.050	0.04	0.25	1.00	20% when specified

Characteristics

Considered low-carbon steel plates, A-36 is intended for general applications such as machined parts, support plates, machine bases and other structural uses. It can be shaped through flame cutting or saw cutting. A-36 is easily welded by all the popular processes and the welds are generally extremely high quality. A-36 offers a consistent ksi min, yield point for all thicknesses of material.

Applications

Mold base frames	Stripper plates	Rings
Machine bases	Holder blocks	Flooring
Form Tools	Punch plates	Supports
Bolster plates	Weldments	Angle Plates

Gas Cutting

This material can be gas cut using good shop or field practices in accordance with those suggested in the AWS handbook. Cutting of this material generally does not require preheating, but the steel temperature should not normally be below 50 degrees F during cutting.

Weldability

ASTM A36 steel can be easily welded, using good shop or field practices by all of the usual methods: shielded metal-arc, submerged-arc, gas metal-arc, flux core and resistance welding. See ASTM handbook on welding A36 for typical method and proper electrode selection.

Formability

ASTM A36 can be cold formed using conventional press barke equipment and good shop practices. Suggested minimum cold forming radii are given below;

Thickness of material	Suggested minimum radii
Up to 1/4" incl	1-1/2t
Over 1/4" to 1/2" incl	2t

For more information, contact:

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