



NESSteel Inc.

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Structural Steel AISI A-36

A-36 is a bar size and structural shape steel commonly used for general structural purposes. Typical analysis is shown in the chart below:

Carbon	Phosphorus	Sulphur
.26% Maximum	0.4% Maximum	0.5% Maximum

A-36 is for use in riveted, welded or bolted construction of bridges and buildings and for general structural uses.

Mechanical Properties

Tensile strength, PSI	Yield Point, PSI	% Elongation in 8"
58,000/80,000	36,000 Min.	20% Min.*

*Subject to a deduction from the percentage of elongation for thicknesses under 5/16" and over 3/4".

Weldability

A-36 is easily welded. Welds and joints are of high quality. Grade of welding rod used depends on section thickness, design, service requirements, etc.

Applications

- Machine Parts
- Gears
- Jigs & Fixtures
- Bridge & Building construction
- Applications requiring easily machined, relatively low-cost steel.