

# A 36 ASTM A36 (USA)

## Standards

ASTM A36

Carbon Structural Steel

## Other designations

### USA

SA 36 - ASME SA36

## Chemical composition

**C** < 0.26

**Si** 0.15 - 0.40

**Mn** 0.80 - 1.35

**P** < 0.04

**S** < 0.05

**Fe** Rest

Cu > 0.20, when copper steel is specified  
Mn < 1.2 + 6\*(0.26 - C)

## Properties

By ASTM A36

**Yield Strength: > 250 MPa**

**Tensile Strength: 400 - 550 MPa**

**Elongation: > 20 %**

Weldability

ASME Section IX

Welding

**P-Number: 1**

**Group: 1**

Brazing

**P-Number: 101**

By ISO 15608

**Group: 11.1**

Calculated properties

**Density: 7.84 g/cm<sup>3</sup>**

## Additional information

Plates 1.5 - 2.5in (40 - 65mm)