Mild steel A36 | 1.025 | Fe 410

Mild Steel A36 is a weldable structural steel for general fabrication.

Mechanical properties

Ultimate tensile strength	400 - 520 MPa
Yield strength	250 - 290 MPa
Young's modulus (modulus of elasticity)	190 - 200 GPa
Elongation at break	21 - 22 %

Physical properties

Corrosion resistance	Poor
Magnetism	Semi-magnetic
Weldability	Excellent

Thermal properties

Maximum service temperature	Variable °C
Thermal expansion coefficent	11 - 11.7 10^-6/ºC
Thermal conductivity	50 W/(m·°C)

Electrical properties

Electrical resistivity	16 - 19 µΩ*cm

Post treatments

Post-Processing	Cold working
Anodizing compatibility	Not suitable

Common applications

Heavy equipment	

Oil & Gas industry	
Automotive industry	
Structural application	

Mild Steel A36 CNC Machining Applications & Parts

Mild Steel A36 is a carbon structural steel widely used in construction and manufacturing across North America. Known for its excellent weldability, good formability, and reliable mechanical properties, A36 offers versatility and cost-effectiveness for various applications. Our CNC machining services efficiently process this material into precision components.

Typical Parts We Machine from Mild Steel A36:

- **Construction Structures:** Building frames, support beams, brackets, and base plates
- **Industrial Equipment:** Machine bases, tool stands, workbenches, and equipment frames
- **Transportation Components:** Trailer parts, truck components, and structural automotive elements

Our Machining Advantage:

We optimize machining parameters for A36 steel to ensure efficient material removal, clean cuts, and consistent dimensional accuracy, making it perfect for structural applications requiring reliability and cost-efficiency.

Get an Instant Quote for your custom Mild Steel A36 parts today.