

Material type

Metal

Material name

Mild steel A36 | 1.025 | Fe 410 | IS2062

Process compatibility

CNC machining**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 %

Thermal properties

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

Post treatments

Post-Processing	Cold working
Anodizing compatibility	Not suitable

Physical properties

Corrosion resistance	Poor
Magnetism	Semi-magnetic
Weldability	Excellent

Electrical properties

Electrical resistivity	16 - 19 μΩ*cm
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Common applications

Structural application
Automotive industry
Heavy equipment
Oil & Gas industry

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