

Low Carbon Steel (1018)

Low carbon steel, also known as mild steel, contains up to 0.30% carbon. This gives the material low strength while making it more malleable and ductile compared to high carbon steels.

Applications

Typical applications include machine parts, mounting plates and brackets, pump parts, motor shafts, tie rods, pins, bushings, bolts, and fasteners.

Key Product Benefits

- Cost Effective
- Increased Ductility and Malleability

Properties

System	Ultimate Tensile Strength	Yield Stress	Tensile Elongation @ Break	Reduction of Area	Brinell Hardness
Imperial	65.0 ksi	45.0-55.0 ksi	16.0-36.0%	40-58%	126
Metric	448 MPa	310-379 MPa	16.0-36.0%	40-58%	126