

Key Features

- Easy to weld
- High strength
- Malleable
- Ductile and machinable

Common Applications

- Bridges and buildings
- Oil rigs

Material Description

Steel A36 is a low-carbon structural steel known for its excellent weldability and formability. It is widely used in construction and structural applications due to its good balance of strength, ductility, and affordability. Common applications of Steel A36 include building frames, bridges, oil rigs, and other structures that require robust, reliable material. It offers moderate strength and can be easily cut, welded, and machined, making it a versatile choice for a variety of projects.

Chemical Composition (%)

	C	Cu	Fe	Mn	P	Si	S				
Min.		0.20		0.80		0.15					
Max.	0.29		98	1.2	0.040	0.40	0.050				

Mechanical Properties

Ultimate Tensile Strength	58,000–79,800 PSI
Tensile Yield Strength	36,300 PSI
Elongation at Break	Rockwell B77
Hardness	20%

Physical Properties

Density	0.284 lb/in ³ (7.85 g/cm ³)
Thermal Conductivity	50.1W/m.K
Modulus of Elasticity	29,000 KSI (200 GPa)
Melting Point	2,590–2,670°F (1,421–1,466 °C)

Technical Assistance

Our knowledgeable staff, supported by our in-house team of expert metallurgists and engineers, is ready to assist you with any technical inquiries.

InstaVoxel™ – On-Demand Manufacturing Expert

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InstaVoxel's quality control system is ISO-9001 certified, and all our partners hold relevant certifications.



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