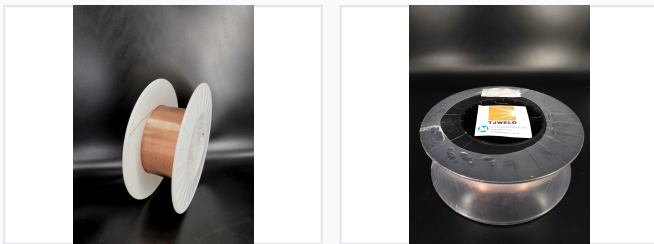


CO2 Gas Shielded Welding Wire

This welding wire is designed for use with carbon dioxide (CO2) as the shielding gas in gas metal arc welding (GMAW). The CO2 gas protects the molten weld pool from atmospheric contamination, ensuring a cleaner and stronger weld.



ADDITIONAL IMAGES



Overview

High-Performance CO2 Gas-Shielded Welding Wire

This low alloy steel welding wire is copper-coated and specifically designed for use with carbon dioxide shielding gas in GMAW (MIG) welding processes. It features advanced deoxidation through Manganese and Silicon to prevent gas porosity and slag inclusion, ensuring clean and strong welds. Engineered for both manual and automated operations, it provides excellent arc stability, minimal spatter, and superior crack resistance for demanding structural applications.

Technical Standards

AWS Classification

ER70S-6

Industry Certifications

CE, TÜV, DB, ABS

Mechanical Properties

Mechanical Performance

400 MPa
Yield Strength

480 MPa
Tensile Strength

22 %
Elongation

Charpy V Impact Value

e27 at -29°C

Chemical Composition



Detailed chemical composition and mechanical properties for ER70S-6 welding wire.

Chemical Composition (%)

Element	Content (%)
Carbon (C)	0.06-0.15
Manganese (Mn)	1.40-1.85
Silicon (Si)	0.80-1.15
Sulfur (S)	d0.035
Phosphorus (P)	d0.025
Copper (Cu)	d0.5

Applications

Suitable Materials

- Mild steel
- 500Mpa grade high-strength steel

Common Applications

Shipbuilding, Vehicle Manufacturing, Bridge Construction, General Fabrication

Logistics

Net Weight per Unit	15 kg
Packaging	Cartons of 15kgs net each