MAG SOLID WIRE

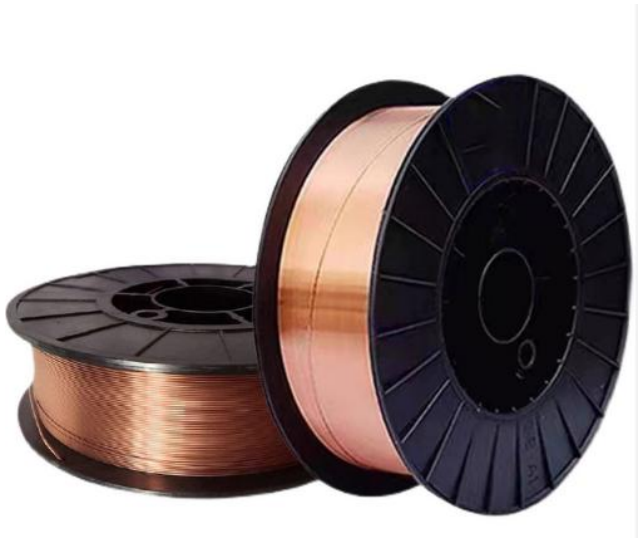
ER 70S-6

Suitable for welding low carbon steel and low alloy steel (such as Q235, 20Mn, etc.), widely used in automobile manufacturing, building steel structure, pipeline welding and mechanical processing.

Commonly used for MIG/MAG welding (gas shielded welding), used with CO_2 or mixed gas (Ar+CO_2).

Features:

- High welding quality: good fluidity of deposited metal, beautiful weld formation, less spatter.
- Strong adaptability: high tolerance for slightly rusted or oily base materials, reducing pretreatment requirements.
- Excellent mechanical properties: tensile strength ⩾ 70ksi (about 480MPa), good elongation, meeting general structural welding requirements.
- High efficiency and economy: solid wire feeding is stable, suitable for automated welding, and improves production efficiency.



Chemical properties

Element	C	Mn	Si	P	S	Cu
Content	0.06-0.15	1.40~1.85	0.8-1.15	≤0.025	≤0.035	≤0.50

Material properties

Characteristics	Value/Description
Tensile strength	≥480 MPa（70 ksi）
Yield strength	≥400 MPa（58 ksi）
Elongation (gauge length 50mm)	≥22%
Impact toughness (-20℃)	≥27 J（Typical Value）
Electrical conductivity	≈10% IACS
Density	7.85 g/cm^3
Melting point	~1530℃