

AK ER70S-3

Description: AK-ER70S-3 is a CO₂ gas shielded welding wire with H10MnSiA disc element and copper-plated surface. The welding wire can be used as shielding gas with CO₂ or Ar-CO₂, and the welding process performance is good. Small diameter wire can be used for all-position welding with short circuit transitions. It should be noted, however, that the use of CO₂ shielding gas combined with excessive heat input may result in lower weld strength than specified.

Application: Suitable for welding low carbon steel and low alloy steel structures.

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Ni	Cr	Mo	Cu
Requirement	0.06-0.15	0.45-0.75	0.9-1.4	0.025	0.025	0.15	0.15	0.15	0.50
Actual Result	0.09	0.65	1.15	0.011	0.016	0.02	0.02	0.02	0.12

Typical Mechanical Properties:

	Tensile strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥ 500	≥420	≥ 22	≥27J(-20℃)
Actual Result	560	480	29	116