

AK ER100S-G

Description: It is a 700MPa grade low-alloy steel welding wire, which is suitable for Ar+CO₂ mixed gas shielded welding. The welding process of this welding wire has less spatter, and the welding seam is beautifully formed. It can be used for all position welding.

Application: It is used for the welding of 700MPa high-strength steel structures, and can be used in coal mining machinery, bridges, construction, vehicle manufacturing and other industries.

Typical Chemical Composition(%):

	C	Mn	Si	P	S	Ti	Cu	Mo	—
Requirement	0.12	1.4-1.9	0.4-0.8	0.02	0.02	0.20	0.50	0.2-0.6	—
Actual Result	0.08	1.62	0.64	0.007	0.002	0.095	0.12	0.31	—

Typical Mechanical Properties:

	Tensile strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥ 690	≥ 610	≥ 16	≥47(-20℃)
Actual Result	700	633	27.5	167 177 178

Recommended welding parameters:

Diameter / mm	0.8	1.0	1.2	1.6
Current (A)	50-180	70-230	80-350	120-500