

AK ER120S-G

Description: AK-ER120S-G welding wire is a gas-shielded solid welding wire used in nuclear power equipment manufacturing and pressure vessel manufacturing. Under the protection of argonrich (80%Ar+20%CO₂) gas, it has good process performance and mechanical properties, especially the welding seam In the state of long-term heat treatment, it can still ensure the excellent mechanical properties of the weld, and has good heat treatment resistance.

Application: It is mainly used for the welding of low-alloy steel specially used for the manufacture of nuclear power equipment, and can also be used for the manufacture of pressure vessels.

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Other	—	—	—
Actual Result	0.060	0.52	1.65	0.006	0.011	Moderate	—	—	—

Typical Mechanical Properties:

	Tensile strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)	Impact Values (J)
Welded	≥ 830	≥ 730	≥ 16	≥ 27(-51℃)	≥ 47(-18℃)
Typical Value	912	855	17	56	87
565± 20℃ /10h	≥ 830	≥ 730	≥ 16	≥ 27(-51℃)	≥ 47(-18℃)
Actual Result	854	801	18	42	75