

AK ER55-1CM-MnV

Description: AK-ER55-1CM-MnV is a gas shielded welding wire for 1%Cr-0.5%Mo pearlitic heat-resistant steel. It uses CO₂ or Ar+5%-20%CO₂ for gas shielding. The deposited metal has good mechanical properties.

Application: It is suitable for the welding of 1%Cr-0.5%Mo heat-resistant steel with a welding working temperature below 530°C, and is often used in the welding of conventional thermal power stations, petrochemical equipment and other structures.

Typical Chemical Composition(%):

	C	Mn	P	S	Si	Cr	Cu	Mo	Ni	V
Requirement	0.06-0.1	1.2-1.6	0.030	0.025	0.6-0.9	1.0- 1.3	0.35	0.5-0.7	0.25	0.4
Actual Result	0.082	0.4-0.65	0.014	0.008	0.72	1.21	0.12	0.6	0.02	0.26

Typical Mechanical Properties :

	Tensile strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥ 550	≥400	≥ 19	≥ 27J (25 °C)
Actual Result	680	580	25	88