

AK ER55-1CM

Description: AK-ER55-1CM is a gas shielded welding wire for 1%Cr-0.5%Mo pearlitic heat-resistant steel. The welding wire adopts argonrich or CO₂ gas shielded welding and has good mechanical properties of deposited metal.

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
Requirement	0.07-0.12	0.4-0.7	0.025	0.025	0.4-0.7	1.2-2.5	0.35	0.4-0.65	0.2
Actual Result	0.075	0.58	0.016	0.008	0.62	1.25	0.11	0.50	0.02

Typical Mechanical Properties :

	Tensile strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥ 550	≥470	≥ 19	— —
Actual Result	620	520	23	90J (25 °C)