



GB/T 13814 ——

AWS A5.14 ERNiCrCoMo-1

EN ISO 14172 ——

AK ERNiCrCoMo-1

Description: ERNiCrCoMo-1 is a nickel-base welding wire for Alloy 617 and similar heat-resistant alloys. It delivers excellent high-temperature strength, oxidation resistance, and metallurgical stability, making it suitable for reliable welding performance in severe thermal service.

Application: ERNiCrCoMo-1 is used for welding Alloy 617 and other high-temperature nickel alloys in gas turbines, furnace components, petrochemical equipment, and power plant systems. It is also suitable for joining selected dissimilar heat-resistant alloys exposed to long-term elevated temperatures.

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Cr	Ni	Cu	Ti
Requirement	0.05-0.15	1.0	1.0	0.015	0.030	20.0-24.0	Rem.	0.50	0.60
Actual Result	0.020	0.54	0.62	0.005	0.020	22.30	Rem.	0.02	0.20
	N	Fe	Al	Nb+Ta	Mo	B	Zr	Co	
Requirement	——	3.0	0.8-1.5	——	8.0-10.0	——	——	10.0-15.0	
Actual Result	——	2.10	1.23	——	8.56	——	——	12.30	

Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥620			
Actual Result	685			