



GB/T 13814 ——

AWS A5.14 ERNiCrCoMo-2

EN ISO 14172 ——

AK ERNiCrCoMo-2

Description: ERNiCrCoMo-2 is a nickel-base welding wire for high-temperature nickel alloys such as Hastelloy X. It provides excellent oxidation resistance, high-temperature strength, and good weld metal fatigue resistance, making it suitable for reliable service in severe thermal and corrosive environments.

Application: ERNiCrCoMo-2 is used for welding Hastelloy X and similar nickel alloys in gas turbines, aerospace exhaust parts, furnace components, and petrochemical equipment. It is also suitable for some dissimilar joints and for parts exposed to long-term heat, oxidation, and stress-corrosion conditions.

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Cr	Ni	Cu	Ti
Requirement	0.04-0.08	0.15	0.30	0.015	0.015	18.5-20.5	Rem.	0.10	1.9-2.3
Actual Result	0.05	0.12	0.15	0.005	0.001	19.65	Rem.	0.02	2.20
	N	Fe	Al	Nb+Ta	Mo	B	Zr	Co	W
Requirement	——	1.50	1.38-1.65	0.30	8.0-9.0	0.003-0.01	0.02	9.0-11.0	0.50
Actual Result	——	1.30	1.52	0.10	8.50	0.006	0.01	10.20	0.10

Typical Mechanical Properties:

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