



GB/T 13814 —

AWS A5.14 ERNiCrMo-7

EN ISO 14172 —

# AK ERNiCrMo-7

**Description:** ERNiCrMo-7 is a nickel-chromium-molybdenum welding wire developed for joining Ni-Cr-Mo alloys to themselves, to steel, and to other nickel-base alloys, and for corrosion-resistant cladding. It offers strong resistance to corrosion and oxidation, making it a dependable choice for harsh and demanding service environments.

**Application:** ERNiCrMo-7 is widely used in chemical processing, petrochemical, oil and gas, and marine industries. It is suitable for welding Ni-Cr-Mo materials such as UNS N06455, for joining dissimilar metals, and for overlay or repair work where long-term corrosion resistance and service reliability are required.

## Typical Chemical Composition(%):

	C	Mn	Fe	P	S	Si	Cu	Ni	Co
Requirement	0.015	1.0	3.0	0.040	0.030	0.08	0.50	Rem.	2.0
Actual Result	0.011	0.70	1.52	0.015	0.015	0.03	0.20	Rem.	1.60
	Al	Ti	Cr	Nb+Ta	Mo	V	W	Zr	B
Requirement	—	0.70	14.0-18.0	—	14.0-18.0	—	0.50	—	—
Actual Result	—	0.20	15.69	—	16.85	—	0.10	—	—

## Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥690			
Actual Result	752			