



GB/T 13814 —

AWS A5.14 ERNiCrMo-8

EN ISO 14172 —

# AK ERNiCrMo-8

**Description:** ERNiCrMo-8 is a nickel-chromium-molybdenum filler metal designed for welding Ni-Cr-Mo base alloys to themselves, to steel, and to other nickel-base alloys. It is also suitable for cladding steel with Ni-Cr-Mo weld metal, offering dependable corrosion resistance, sound strength, and stable performance in harsh service conditions.

**Application:** ERNiCrMo-8 is suitable for similar and dissimilar welding of Ni-Cr-Mo alloys, nickel-base alloys, and steel, and is widely used for corrosion-resistant overlay cladding. It is a practical choice for components exposed to aggressive media and severe environments where long-term strength and corrosion resistance are required.

## Typical Chemical Composition(%):

	C	Mn	Fe	P	S	Si	Cu	Ni	Co
Requirement	0.03	1.0	Rem.	0.030	0.030	1.0	0.70-1.20	47.0-52.0	---
Actual Result	0.01	0.60	Rem.	0.015	0.015	0.55	0.89	49.76	---
	Al	Ti	Cr	Nb+Ta	Mo	V	W	Zr	B
Requirement	---	0.70-1.50	23.0-26.0	---	5.0-7.0	---	---	---	---
Actual Result	---	1.33	24.69	---	6.15	---	---	---	---

## Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥590			
Actual Result	654			