



GB/T 13814 —

AWS A5.14 ERNiMo-1

EN ISO 14172 —

# AK ERNiMo-1

**Description:** ERNiMo-1 is a nickel-molybdenum alloy welding wire designed for demanding fabrication and repair work. It offers strong corrosion resistance, reliable mechanical performance, and stable weld quality, making it suitable for joining or surfacing components exposed to harsh chemicals, heat, and severe service conditions.

**Application:** ERNiMo-1 is commonly used in chemical processing, offshore equipment, power systems, and heavy industrial maintenance. It is suitable for welding nickel-based components, repairing corrosion-damaged parts, and overlay applications where resistance to aggressive media, high temperature, and long-term service reliability is required.

## Typical Chemical Composition(%):

	C	Si	Mn	S	P	Cr	Ni	Cu	Ti
Requirement	0.08	1.0	1.0	0.030	0.025	1.0	Rem.	0.50	---
Actual Result	0.05	0.85	0.60	0.001	0.015	0.20	Rem.	0.10	---
	N	Fe	Al	Nb+Ta	Mo	V	Zr	Co	W
Requirement	---	4.0-7.0	---	---	26.0-30.0	0.20-0.40	---	2.50	1.0
Actual Result	---	5.63	---	---	27.60	0.30	---	1.69	0.50

## Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥690			
Actual Result	756			