



GB/T 13814 —

AWS A5.14 ERNiMo-2

EN ISO 14172 —

AK ERNiMo-2

Description: ERNiMo-2 is a nickel-based welding wire designed for joining and surfacing alloys that require strong corrosion resistance, high-temperature stability, and reliable mechanical performance. It is commonly used where resistance to reducing acids, pitting, and stress corrosion cracking is important.

Application: ERNiMo-2 is widely used for welding nickel alloys, clad steels, and dissimilar metals in chemical processing, petrochemical, marine, and pollution-control equipment. It is suitable for fabricating reactors, heat exchangers, piping systems, and other components exposed to aggressive corrosive environments.

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Cr	Ni	Cu	Tl
Requirement	0.04-0.08	1.0	1.0	0.020	0.015	6.0-8.0	Rem.	0.50	---
Actual Result	0.05	0.80	0.60	0.005	0.001	6.52	Rem.	0.10	---
	N	Fe	Al	Nb+Ta	Mo	V	Zr	Co	W
Requirement	---	5.0	---	---	15.0-18.0	0.50	---	0.20	0.50
Actual Result	---	2.85	---	---	16.23	0.30	---	0.10	0.20

Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥690			
Actual Result	750			