



GB/T 13814 —

AWS A5.14 ERNiMo-7

EN ISO 14172 —

AK ERNiMo-7

Description: ERNiMo-7 is a nickel-molybdenum welding wire classified under AWS A5.14, typically used to weld Ni-Mo alloys such as Hastelloy B-2/B-3. It provides excellent resistance to reducing acids and corrosion, while delivering sound weld metal and reliable performance in highly aggressive chemical service.

Application: ERNiMo-7 is used for welding nickel-molybdenum alloys, clad-side joints in Ni-Mo clad steel, and selected dissimilar joints. Typical uses include reactors, heat exchangers, piping, tanks, and chemical processing equipment exposed to hydrochloric acid, sulfuric acid, and other strongly reducing media.

Typical Chemical Composition(%):

	C	Mn	Fe	P	S	Si	Cu	Ni	Co
Requirement	0.02	1.0	2.0	0.040	0.030	0.10	0.50	Rem.	1.0
Actual Result	0.01	0.60	1.20	0.015	0.015	0.05	0.10	Rem.	0.62
	Al	Ti	Cr	Nb+Ta	Mo	V	W	Zr	B
Requirement	—	—	1.0	—	26.0-30.0	—	1.0	—	—
Actual Result	—	—	0.55	—	28.56	—	0.55	—	—

Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥760			
Actual Result	805			