



GB/T 13814 —

AWS A5.14 ERNiMo-3

EN ISO 14172 —

AK ERNiMo-3

Description: ERNiMo-3 is a nickel-based welding wire developed for welding nickel-chromium-molybdenum alloys with excellent resistance to severe corrosive environments. It offers strong protection against pitting, crevice corrosion, and stress corrosion cracking, while maintaining good weldability and stable mechanical properties.

Application: ERNiMo-3 is commonly used in chemical processing, offshore, marine, flue gas desulfurization, and pollution-control industries. It is suitable for welding high-performance nickel alloys, clad steels, and dissimilar metals in reactors, heat exchangers, piping, pressure vessels, and equipment exposed to harsh corrosive media.

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Cr	Ni	Cu	Ti
Requirement	0.12	1.0	1.0	0.030	0.040	4.0-6.0	Rem.	0.50	---
Actual Result	0.06	0.75	0.63	0.015	0.015	5.36	Rem.	0.10	---
	N	Fe	Al	Nb+Ta	Mo	V	Zr	Co	W
Requirement	---	4.0-7.0	---	---	23.0-26.0	0.60	---	2.50	1.0
Actual Result	---	5.26	---	---	24.52	0.20	---	1.95	0.36

Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥690			
Actual Result	725			