



GB/T 13814 ——

AWS A5.14 ERNiMo-9

EN ISO 14172 ——

AK ERNiMo-9

Description: ERNiMo-9 is a nickel-molybdenum welding wire classified under AWS A5.14, developed for cryogenic 9% nickel steel. It provides high weld-metal strength, excellent toughness at very low temperatures, and strong resistance to cracking, helping produce reliable welds for demanding low-temperature service.

Application: ERNiMo-9 is mainly used for welding 9% Ni steel in LNG tanks, liquid nitrogen storage tanks, LNG carriers, and other cryogenic equipment. It is suited to joints that require dependable weld integrity, low-temperature toughness, and stable performance in critical storage and transport applications.

Typical Chemical Composition(%):

	C	Mn	Fe	P	S	Si	Cu	Ni	Co
Requirement	0.10	1.0	5.0	0.015	0.015	0.50	0.30-1.30	≥65	---
Actual Result	0.05	0.60	3.25	0.001	0.002	0.10	0.65	68.25	---
	Al	Ti	Cr	Nb+Ta	Mo	V	W	Zr	B
Requirement	1.0	---	---	---	19.0-22.0	---	2.0-4.0	---	---
Actual Result	0.50	---	---	---	20.20	---	2.60	---	---

Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥660			
Actual Result	695			