



GB/T 13814 —

AWS A5.14 ERNiCrMo-15

EN ISO 14172 —

AK ERNiCrMo-15

Description: ERNiCrMo-15 is an age-hardenable nickel-chromium-molybdenum filler metal associated with Alloy 725. It is used with GTAW and GMAW, and offers a combination of strong corrosion resistance with the ability to develop higher strength and hardness after suitable post-weld heat treatment.

Application: ERNiCrMo-15 is suitable for welding Alloy 725 to itself, for cladding steel, and for severe-service components that require both corrosion resistance and age-hardened strength. It is commonly applied in oilfield and other demanding industrial equipment where GTAW or GMAW weldability and reliable service performance are important.

Typical Chemical Composition(%):

	C	Mn	Fe	P	S	Si	Cu	Ni	Co
Requirement	0.030	0.35	Rem.	0.015	0.010	0.20	---	55.0-59.0	---
Actual Result	0.010	0.10	Rem.	0.010	0.005	0.10	---	56.38	---
	Al	Ti	Cr	Nb+Ta	Mo	V	W	Zr	B
Requirement	0.35	1.0-1.70	19.0-22.5	2.75-4.0	7.0-9.5	---	---	---	---
Actual Result	0.20	1.50	21.50	3.85	7.69	---	---	---	---

Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥1200			
Actual Result	1265			