GB/T 13814 ——

AWS A5.14 ERNiCrMo-10

EN ISO 14172——

AK ERNiCrMo-10

Description: ERNiCrMo-10 is a nickel-chromium-molybdenum-tungsten welding wire for joining Ni-Cr-Mo alloys, steel, and other nickel-base alloys. It is associated with Alloy C22 / NiCr21Mo13Fe4W3 and is valued for strong resistance to pitting, crevice corrosion, and stress-corrosion cracking in severe service.

Application: ERNiCrMo-10 is used for similar and dissimilar welding, especially joining C22, 625, and 825 alloys, as well as for corrosion-resistant cladding by GTAW, GMAW, and PAW. It is widely applied in petroleum, chemical, power generation, offshore, and marine equipment exposed to aggressive media.

Typical Chemical Compostion(%):

	C	Mn	Fe	P	S	Si	Cu	Ni	Co
Requirement	0.015	0.50	2.0-6.0	0.020	0.010	0.08	0.50	Rem.	2.50
Actual Result	0.010	0.30	3.25	0.010	0.002	0.04	0.10	Rem.	1.58
	Al	**Ti**	**Cr**	**Nb+Ta**	**Mo**	**V**	**W**	**Zr**	**B**
Requirement	——	——	20.0-22.5	——	12.5-14.5	0.35	2.5-3.5	——	——
Actual Result	——	——	20.95	——	13.20	0.10	2.85	——	——

Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥690			
Actual Result	746			