GB/T 13814 ——

AWS A5.14 ERNiCrMo-14

EN ISO 14172——

AK ERNiCrMo-14

Description: ERNiCrMo-14 is a nickel-chromium-molybdenum welding wire for severe corrosion environments requiring resistance to reducing, oxidizing, and pitting conditions. It offers excellent resistance to stress-corrosion cracking, pitting, and crevice corrosion, and is suitable for GTAW and GMAW welding as well as corrosion-resistant cladding.

Application: ERNiCrMo-14 is used for welding wrought and cast nickel alloys to themselves, to steel, and to other nickel-base alloys, and for steel cladding. It is also suitable for dissimilar welding involving nickel alloys, steels, and stainless steels in aggressive industrial environments where long-term corrosion resistance is required.

Typical Chemical Compostion(%):

	C	Mn	Fe	P	S	Si	Cu	Ni	Co
Requirement	0.010	1.0	5.0	0.020	0.020	0.08	0.50	Rem.	——
Actual Result	0.004	0.20	4.10	0.010	0.001	0.04	0.10	Rem.	——
	Al	**Ti**	**Cr**	**Nb+Ta**	**Mo**	**V**	**W**	**Zr**	**B**
Requirement	0.50	0.25	19.0-23.0	——	15.0-17.0	——	3.0-4.4	——	——
Actual Result	0.20	0.10	20.30	——	16.25	——	3.98	——	——

Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥760			
Actual Result	815			