



GB/T 13814 ——

AWS A5.14 ERNiCrFe-6

EN ISO 14172 ——

AK ERNiCrFe-6

Description: ERNiCrFe-6 is a nickel-chromium-iron welding alloy, commonly identified with INCONEL Filler Metal 92. It provides high strength, good corrosion and oxidation resistance, and reliable performance at elevated temperatures. It is suitable for welding nickel alloys, steels, and dissimilar metals.

Application: ERNiCrFe-6 is used for welding austenitic and ferritic steels, nickel alloys, and dissimilar joints. Typical applications include joining INCONEL and INCOLOY alloys to stainless steel, carbon steel, or MONEL alloys, as well as welding nickel steels in chemical, power, and heat-resistant equipment.

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Cr	Ni	Cu	Ti
Requirement	0.08	0.35	2.0-2.7	0.015	0.030	14.0-17.0	≥67	0.50	2.5-3.5
Actual Result	0.04	0.10	2.30	0.005	0.001	15.50	Rem.	0.02	3.10
	N	Fe	Al	Nb+Ta	Mo	B	Zr	Co	W
Requirement	——	8.0	——	——	——	——	——	——	——
Actual Result	——	6.85	——	——	——	——	——	——	——

Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥550			
Actual Result	610			