



GB/T 13814 —

AWS A5.14 ERNiCr-6

EN ISO 14172 —

# AK ERNiCr-6

**Description:** ERNiCr-6 is a nickel-chromium alloy welding wire designed for high-temperature and demanding welding applications. It offers good oxidation resistance, reliable weld strength, and strong crack resistance, making it suitable for critical joints, dissimilar metal welding, and harsh service environments.

**Application:** ERNiCr-6 is commonly used for welding nickel alloys, dissimilar metals, heat-resistant components, petrochemical equipment, power plant parts, furnace components, and industrial equipment exposed to thermal cycling, oxidation, and corrosive or high-temperature service conditions.

## Typical Chemical Composition(%):

	C	Si	Mn	S	P	Cr	Ni	Cu	Tl
<b>Requirement</b>	0.08-0.15	0.30	1.0	0.015	0.030	19.0-21.0	≥75.0	0.50	0.15-0.5
<b>Actual Result</b>	0.12	0.20	0.52	0.008	0.010	20.1	Rem.	0.12	0.20

## Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
<b>Requirement</b>	≥550			
<b>Actual Result</b>	620			