



GB/T 13814 —

AWS A5.11 ENiCrMo-2

EN ISO 14172 —

# AK ENiCrMo-2

**Description:** ENiCrMo-2 is a nickel-chromium-molybdenum alloy welding electrode known for its superior resistance to high-temperature oxidation and corrosion. It is ideal for welding alloys used in harsh environments, offering excellent mechanical properties and weld integrity in high-stress applications.

**Application:** ENiCrMo-2 is commonly used in the petrochemical, power, and chemical industries for welding heat exchangers, pressure vessels, and pipes subjected to high temperatures and corrosive conditions. It is particularly effective in welding materials like stainless steel, Inconel, and other heat-resistant alloys.

## Typical Chemical Composition(%):

	C	Mn	Fe	P	S	Si	Cu	Ni	Co
Requirement	0.05-0.15	1.0	17.0-20.0	0.040	0.030	1.0	0.50	Rem.	0.50-2.50
Actual Result	0.10	0.40	19.26	0.015	0.015	0.40	0.10	Rem.	1.37
	Al	Ti	Cr	Nb+Ta	Mo	V	W	La	B
Requirement	---	---	20.5-23.0	---	8.0-10.0	---	0.20-1.0	---	---
Actual Result	---	---	21.62	---	8.65	---	0.40	---	---

## Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values ( J)
Requirement	≥650		20	
Actual Result	697		22	