



GB/T 13814 —

AWS A5.11 ENiCrMo-6

EN ISO 14172 —

AK ENiCrMo-6

Description: ENiCrMo-6 is a high-performance nickel-chromium-molybdenum alloy welding electrode designed for superior resistance to heat, corrosion, and oxidation. It provides excellent weldability, high strength, and resistance to thermal fatigue, making it suitable for demanding applications in extreme environments.

Application: ENiCrMo-6 is widely used in the welding of high-alloy steels, including stainless steel and materials exposed to high temperatures and corrosive environments. Common applications include welding in the aerospace, power generation, and chemical industries, such as in gas turbines, heat exchangers, and high-temperature piping systems.

Typical Chemical Composition(%):

	C	Mn	Fe	P	S	Si	Cu	Ni	Co
Requirement	0.10	2.0-4.0	10.0	0.030	0.020	1.0	0.50	≥55	---
Actual Result	0.04	2.40	8.50	0.015	0.015	0.60	0.20	61.58	---
	Al	Ti	Cr	Nb+Ta	Mo	V	W	La	B
Requirement	---	---	12.0-17.0	0.50-2.0	5.0-9.0	---	1.0-2.0	---	---
Actual Result	---	---	15.50	1.28	6.75	---	1.38	---	---

Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥620		35	
Actual Result	683		38	