



GB/T 13814 —

AWS A5.11 ENiCrMo-9

EN ISO 14172 —

AK ENiCrMo-9

Description: ENiCrMo-9 is a nickel-chromium-molybdenum welding electrode developed for demanding service conditions requiring excellent corrosion resistance and mechanical reliability. It offers strong resistance to oxidation, chloride attack, pitting, and thermal cracking, and is suitable for welding nickel alloys and dissimilar metals.

Application: ENiCrMo-9 is widely used in offshore platforms, chemical plants, pollution control equipment, and power generation systems. It is ideal for welding pipelines, pressure vessels, heat exchangers, and reactors exposed to seawater, aggressive chemicals, high temperatures, and corrosive process media.

Typical Chemical Composition(%):

	C	Mn	Fe	P	S	Si	Cu	Ni	Co
Requirement	0.020	1.0	18.0-21.0	0.040	0.030	1.0	1.50-2.50	Rem.	5.0
Actual Result	0.010	0.60	19.68	0.010	0.010	0.60	1.85	Rem.	3.48
	Al	Ti	Cr	Nb+Ta	Mo	V	W	La	B
Requirement	—	—	21.0-23.5	0.50	6.0-8.0	—	1.50	—	—
Actual Result	—	—	21.69	0.20	7.26	—	0.85	—	—

Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥620		25	
Actual Result	681		28	