

GB/T 13814 ENi6117

AWS A5.11 ENiCrCoMo-1

EN ISO 14172-ENi6117

ENiCrCoMo-1

Description: AK-ENiCrCoMo-1 is a nickel-based alloy electrode with low-hydrogen coating. Its chemical composition is NiCr22Co12Mo. Can be welded in all positions.

Application: Mainly used for welding nickel-based alloys such as Inconel 600/601, Incoloy 800H, Incoloy 825 and HK40/HP40 iron-nickel-based high-temperature corrosion-resistant alloys.

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Fe	Ni	Cr	Mo
Requirement	0.05-0.15	1.00	3.00	0.015	0.020	5.00	≥45	20.0-26.0	8.00-10.00
Actual Result	0.09	0.35	1.13	0.004	0.009	1.50	52.86	23.5	8.72
	Co	Cu	Al	Ti					
Requirement	9.00-15.00	0.50	1.50	0.60					
Actual Result	11.5	0.02	0.15	0.17					

Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥620	≥400	22	
Actual Result	760	540	30	