

AK E8018-B2

Description: E8018-B2 welding electrode is for higher strength steels with tensile strengths greater than 80,000 pounds. The coating is specially formulated to resist moisture pick-up under conditions of high heat and humidity . This electrode offers resistance to moisture reabsorption which helps prevent hydrogen cracking and aids in elimination of starting porosity.

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Ni	Mo	Cr	V
Requirement	0.05-0.12	0.80	0.9	0.030	0.030	—	0.4-0.65	1.0-1.5	
Actual Result	0.055	0.46	0.73	0.010	0.020	—	0.57	1.35	

Typical Mechanical Properties:

	Tensile strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥540	≥460	≥ 17	≥54J
Actual Result	610	500	22	105 106 104