

AK E318-15

Description: E318-15 is a stainless steel electrode producing a Niobium stabilised 17Cr - 11Ni - 2.0Mo weld metal. The weld metal possesses good resistance to corrosion and pitting and improved creep strength. The weld metal has excellent resistance to intergranular corrosion. Ideally suited for joining stainless steels of similar composition.

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Ni	Mo	Cr	Nb+Ta
Requirement	0.08	1.00	0.5-2.5	0.02	0.03	11.0-14.0	2.0-3.0	17.0-20.0	6*C-1.0
Actual Result	0.033	0.82	0.89	0.010	0.025	11.25	2.11	18.92	0.28

Typical Mechanical Properties:

	Tensile strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥ 550		≥20	
Actual Result	610		30	