

AK E316L-15

Description: E316L-15 is a semi-basic coated electrode depositing a weld metal which is fully austenitic in structure, has high strength and good crack resistance. The weld metal displays remarkable corrosion resistance particularly in urea service. Ideally suitable for welding of AISI 316L and their nitrogen bearing versions particularly for urea service.

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Ni	Mo	Cr	Cu
Requirement	0.04	1.00	0.5-2.5	0.03	0.03	11.0-14.0	2.0-3.0	17.0-20.0	0.75
Actual Result	0.035	0.72	0.97	0.011	0.025	11.34	2.21	18.72	0.04

Typical Mechanical Properties:

	Tensile strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥490		≥30	
Actual Result	550		35	