

AK ER316LSi

Description: A super low carbon and high silicon stainless steel welding wire that has high deposition efficiency, used to weld 19%13Ni2%Mo and similar stainless steels. The low carbon content helps prevent intergranular corrosion and higher silicon increase weld puddle fluidity, suitable for high- speed welding.

Application: Used to weld 19%13Ni2%Mo and similar stainless steels, like food and Beverage, Petrochemical plants, Pulp and Paper, other general fabrication on stainless steels.

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Ni	Mo	Cr	Cu
Requirement	0.03	0.65-1.0	1.0-2.5	0.03	0.03	11.0-14.5	2.0-3.0	18.0-20.0	0.75
Actual Result	0.015	0.87	2.13	0.010	0.014	12.25	2.27	18.67	0.01

Typical Mechanical Properties:

	Tensile strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥ 510		≥25	——
Actual Result	575		36	72J(-40℃)