

AK ER309LSi

Description: A super low carbon and high silicon stainless steel welding wire have high deposition efficiency, and is used for joining similar 309L alloys or for joining 300- series stainless steels to carbon or low alloy 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 super low carbon 24%Cr13%Ni and similar stainless steels, like ASTM 309S etc.

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	12.0-14.0	0.50	23.0-25.0	0.75
Actual Result	0.016	0.92	1.83	0.009	0.023	13.38	0.01	23.21	0.09

Typical Mechanical Properties:

	Tensile strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	—		—	
Actual Result	625		35	92J(-40°C)