

AK ER347Si

Description:

ER347Si is a niobium-stabilized stainless steel welding wire with higher silicon for improved fluidity, wetting, and bead appearance. It is designed for welding 347 and similar stabilized austenitic stainless steels, offering good crack resistance, oxidation resistance, and reliable elevated-temperature performance.

Application Scenario:

ER347Si is used for headers, exhaust components, pressure vessels, heat exchangers, and piping systems exposed to elevated temperatures. It is well suited for petrochemical, power generation, and refinery applications where smooth weld appearance, thermal stability, and resistance to intergranular corrosion are needed.

Typical Chemical Composition(%):

	C	Cr	Ni	Mo	Mn	Si	P	S	Cu
Requirement	0.08	19.0-21.5	9.0-11.0	0.75	1.0-2.5	0.65-1.0	0.030	0.030	0.75
Actual Result	0.05	20.25	10.36	0.50	2.20	8.64	0.010	0.010	0.20

Typical Mechanical Properties:

	Tensile strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement				
Actual Result	620		34	