

AK ER307Si

Description: The welding wire is 21%Cr-9%Ni-6%Mn pure austenitic stainless steel wire. Due to the high content of Mn, the crack sensitivity is low, and the fluidity of molten iron is good due to the addition of Si, the welding arc is stable, and the molding is more beautiful. Can be welded in all positions..

Application: It is used for welding of non-magnetic, high-manganese steel and hardening corrosion resistant steel. It is often used in nuclear submarines, bulletproof steel plates and other special occasions that require non-magnetic properties. It can also be used for welding of dissimilar steels that are difficult to weld and easy to crack.

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Ni	Mo	Cr	Cu
Requirement	0.04-0.14	0.65-1.0	6.5-8.0	0.03	0.03	8.0-10.7	0.75	18.5-22.0	0.75
Actual Result	0.071	0.70	6.73	0.012	0.018	8.96	0.05	18.83	0.05

Typical Mechanical Properties:

	Tensile strength (MPa)	Yield Stress(MPa)	Elongation (%)	Impact Values (J)
Requirement	---		---	
Actual Result	630		32	