

AK ER310L

Description: ER310L is commonly marketed as a low-carbon 25Cr-20Ni heat-resistant stainless wire for welding 310-type alloys and similar cast or wrought stainless steels. It produces a fully austenitic weld deposit with strong oxidation resistance at elevated temperature, and welding is usually done with controlled heat input.

Application Scenario: ER310L is suitable for furnace parts, boiler components, ducting, heat exchangers, and other fabrications exposed to sustained high temperature. It is used where oxidation resistance and dependable weld integrity are important in heat-resistant stainless service.

Typical Chemical Composition(%):

	C	Cr	Ni	Mo	Mn	Si	P	S	Cu
Requirement	0.03	25.0-28.0	20.0-22.5	0.75	1.0-2.5	0.30-0.65	0.030	0.030	0.75
Actual Result	0.02	26.35	22.10	0.50	1.76	0.52	0.015	0.015	0.20

Typical Mechanical Properties:

	Tensile strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	---		---	
Actual Result	550		38	