

AK ER316

Description: ER316 is a chromium-nickel-molybdenum stainless welding wire designed for welding 316/316L stainless steels and other common 18-8 austenitic grades. Its molybdenum addition improves pitting resistance, and the weld metal offers strong corrosion resistance for service in acidic or chloride-containing environments.

Application Scenario: ER316 is used for chemical equipment, food-processing systems, marine fabrications, piping, tanks, and stainless structures that need better corrosion resistance than standard 308-type fillers. It is suitable for both general fabrication and higher-temperature stainless service.

Typical Chemical Composition(%):

	C	Cr	Ni	Mo	Mn	Si	P	S	Cu
Requirement	0.08	18.0-20.0	11.0-14.0	2.0-3.0	1.0-2.5	0.30-0.65	0.030	0.030	0.75
Actual Result	0.05	19.63	12.58	2.50	2.20	0.40	0.010	0.010	0.20

Typical Mechanical Properties:

	Tensile strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	520		30	
Actual Result	610		36	