

AK ER430Nb

Description: ER430Nb is a ferritic stainless welding wire based on 18% chromium and stabilized with niobium for improved grain control and thermal stability. It is intended for welding matching ferritic stainless steels and offers good corrosion resistance, solid weldability, and dependable performance in thin-gauge stainless fabrication.

Application Scenario: ER430Nb is widely used for automotive exhaust parts, ferritic stainless tubing, and sheet fabrications where resistance to corrosion and thermal fatigue is important. It is suitable for welding 430- and 441-type base materials in high-volume industrial production.

Typical Chemical Composition(%):

	C	Cr	Ni	Mo	Mn	Si	P	S	Nb
Requirement	0.10	15.5-17.0	0.60	0.75	0.60	0.50	0.030	0.030	8*C-1.2
Actual Result	0.05	16.32	0.20	0.50	0.10	0.30	0.010	0.010	0.65

Typical Mechanical Properties:

	Tensile strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	450		20	
Actual Result	560		28	