

AK ER409

Description:

ER409 is a ferritic stainless steel welding wire designed for joining 409 and similar chromium stainless steels. It provides good oxidation resistance, stable welding performance, and reliable strength for applications requiring cost-effective stainless welds with acceptable corrosion and heat resistance.

Application Scenario:

ER409 is widely used in automotive exhaust systems, mufflers, catalytic converter shells, and tubing exposed to moderate heat and oxidation. It is suitable for ferritic stainless steel fabrication where good weldability, thermal resistance, and economical performance are important.

Typical Chemical Composition(%):

	C	Cr	Ni	Mo	Mn	Si	P	S	Cu
Requirement	0.08	10.5-13.5	0.60	0.50	0.80	0.80	0.030	0.030	0.75
Actual Result	0.04	12.50	0.40	0.40	0.30	0.30	0.010	0.010	0.50

Typical Mechanical Properties:

	Tensile strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement				
Actual Result	560		30	