

AK ER4010

TIG/MIG

Description:

ER4010 is commonly associated with A356-type aluminum filler wire and is used for GTAW and GMAW on aluminum of similar composition, heat-treatment response, and corrosion resistance. Compared with 4008, published product data notes lower iron content and the potential for higher tensile properties.

Application scenario:

Suitable for A356-type cast aluminum parts, repair welding of similar castings, and fabricated components that need composition match and stable weld behavior. It fits jobs where balanced mechanical performance, compatibility with cast aluminum, and reliable MIG/TIG processing are more important than broad general-purpose use.

Typical Chemical Composition(%):

	Si	Fe	Cu	Mn	Mg	Zn	Ga V	Ti
Requirement	6.5-7.5	0.20	0.20	0.10	0.30-0.45	0.10	---	0.20
Actual Result	6.85	0.10	0.05	0.05	0.33	0.02	---	0.10
	Zr	Al	Be	Other				
Requirement	---	Rem.	0.0003	0.05				
Actual Result	---	Rem.	0.0001	0.02				

Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement				
Actual Result				