



GB/T 10858 S Al 1100
 AWS A5.10 ER1100
 EN ISO 18273 S Al 1100

AK ER1100

TIG/MIG

Description:

ER1100 is a soft, highly formable aluminum filler known for strong resistance to chemical attack and weathering. It welds cleanly, works well on similar pure-aluminum base metals, and is favored where bright anodized finish, corrosion resistance, and electrical conductivity are important.

Application scenario:

A strong choice for chemical storage equipment, thin sheet and foil products, light fabricated parts, and conductive aluminum components. It is commonly selected for welding similar-composition aluminum where service conditions are mild and the joint needs ductility, corrosion resistance, and neat visual finish.

Typical Chemical Composition(%):

	Si	Fe	Cu	Mn	Mg	Zn	Ga V	Ti
Requirement	0.95		0.05-0.20	0.05	---	0.10	---	---
Actual Result	0.40		0.05	0.02	---	0.02	---	---
	Zr	Al	Be	Other				
Requirement	---	99.0	0.0003	0.05				
Actual Result	---	99.45	0.0001	0.01				

Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement				
Actual Result	105		35	