



GB/T 10858 S Al 1080A

AWS A5.10 ER1080A

EN ISO 18273 S Al 1080A

# AK ER1080A

## TIG/MIG

### Description:

ER1080A is a high-purity aluminum filler metal for joining similar 1xxx-series alloys and selected 3xxx grades. With about 99.8% aluminum, it offers clean welds, good corrosion resistance, excellent formability, and a clear post-anodized appearance where purity matters more than high strength.

### Application scenario:

Ideal for thin-gauge aluminum parts, electrical conductors, busbars, foil-related fabrications, and light chemical or food-processing components made from 1060, 1070, 1080, 1100, 1350, or 3003. Use it when conductivity, appearance, and ductility are more important than structural strength.

### Typical Chemical Composition(%):

	Si	Fe	Cu	Mn	Mg	Zn	Ga V	Ti
<b>Requirement</b>	0.15	0.15	0.03	0.02	0.02	0.06	Ga 0.03	0.02
<b>Actual Result</b>	0.05	0.040	0.01	0.01	0.01	0.02	99.71	0.01
	Zr	Al	Be	Other				
<b>Requirement</b>	---	99.80	0.0003	0.03				
<b>Actual Result</b>	---	99.83	0.0001	0.01				

### Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values ( J )
<b>Requirement</b>				
<b>Actual Result</b>	195		20	