



GB/T 10858 S Al 2319

AWS A5.10 ER2319

EN ISO 18273 S Al 2319

# AK ER2319

## TIG/MIG

### Description:

ER2319 is a heat-treatable aluminum-copper filler developed for 2219 and related alloys. It is used in high-strength structural and aircraft work, offering better strength and ductility than many 4xxx fillers on 2xxx alloys, plus improved resistance to stress-corrosion cracking and good elevated-temperature performance.

### Application scenario:

Best for aerospace structures, high-load aluminum fabrications, pressure-related assemblies, and other demanding welded parts based on 2219-type material. Choose ER2319 when the job needs stronger weld metal, heat-treat response, and dependable performance in critical structural service rather than cosmetic appearance alone.

### Typical Chemical Composition(%):

	Si	Fe	Cu	Mn	Mg	Zn	V	Ti
<b>Requirement</b>	0.20	0.30	5.80-6.80	0.20-0.40	0.020	0.10	0.05-0.15	0.10-0.20
<b>Actual Result</b>	0.10	0.10	5.86	0.38	0.010	0.02	0.08	0.15
	Zr	Al	Be	Other				
	0.10-0.25	Rem.	0.0003	0.05				
	0.16	Rem.	0.0001	0.01				

### Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values ( J )
<b>Requirement</b>				
<b>Actual Result</b>	380		5	