



GB/T 10858 S Al 5183
AWS A5.10 ER5183
EN ISO 18273 S Al 5183

AK ER5183

TIG/MIG

Description: ER5183 is an aluminum-magnesium welding wire containing Mg and Mn, which has excellent crack resistance and corrosion resistance, and high strength. Excellent welding process performance, beautiful weld shape, stable arc and small spatter.

Application: It is suitable for argon arc welding of aluminum-magnesium alloys and aluminum zinc magnesium alloys, and is one of the most commonly used aluminum alloy welding wires. It is often used in aluminum alloy welding related to offshore platforms, cryogenic vessels, railway locomotives and automobile industries.

Typical Chemical Composition(%):

	Si	Fe	Cu	Mn	Mg	Zn	Al	Be	Cr	Ti
Requirement	0.40	0.40	0.10	0.50-1.0	4.3-5.2	0.25	bal.	0.0005	0.05-0.25	0.15
Actual Result	0.15	0.16	0.03	0.67	4.77	0.05	bal.	0.0002	0.08	0.07

Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	— —	— —	— —	
Actual Result	302	208	16	