



GB/T 5293 H08A
AWS A5.17 EL8K
EN ISO 14171-AS1

AK EL8K

Description

EL8K is a dependable submerged arc welding wire designed for stable arc behavior, smooth bead appearance, and efficient slag release. Its low-manganese, low-silicon chemistry works well with suitable high-manganese, high-silicon flux systems, helping deliver consistent weld quality, good forming, and reliable performance in routine fabrication work.

Application Scenario

EL8K is well suited for high-speed welding and filling welds on carbon steel structures, especially where productivity and bead consistency are important. It can be used in general fabrication, steel components, and medium-strength base metal applications where clean weld formation and steady submerged arc performance are required.

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Ni	Cr	Mo	Cu
Requirement	0.10	0.10-0.25	0.25-0.60	0.030	0.030	---	---	---	0.35
Actual Result	0.05	0.12	0.50	0.020	0.013	---	---	---	0.10

Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	---	---	---	27J(-40°C)
Actual Result	525	420	32	108