



GB/T 5293 —
 AWS A5.17 EM13K
 EN ISO 14171 —

AK EM13K

Description

EM13K is a submerged arc welding wire developed for applications requiring stable welding operation, uniform bead shape, and good mechanical performance. It offers excellent feeding consistency and weld integrity, making it suitable for carbon steel and certain low-alloy steel fabrication in demanding industrial projects.

Application Scenario

EM13K is commonly applied in bridge construction, offshore structures, boilers, pressure vessels, wind tower sections, and large steel fabrication. It is especially suitable for producers seeking reliable weld quality, efficient long-run production, and consistent performance in thick-plate welding and automated SAW processes.

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Ni	Cr	Mo	Cu
Requirement	0.06-0.16	0.35-0.75	0.90-1.40	0.030	0.030	---	---	---	0.35
Actual Result	0.08	0.52	1.20	0.015	0.015	---	---	---	0.10

Typical Mechanical Properties:

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