



GB/T 5293 —  
 AWS A5.17 EH12K  
 EN ISO 14171 —

# AK EH12K

## Description

EH12K is a high-quality submerged arc welding wire designed for efficient welding of carbon and low-alloy steels. It delivers stable arc performance, smooth wire feeding, and uniform weld metal deposition. With good bead shape and reliable mechanical properties, it is suitable for industrial applications requiring consistent welding quality.

## Application Scenario

EH12K is ideal for use in pressure vessels, offshore platforms, steel bridges, storage tanks, ship panels, and heavy equipment fabrication. It is particularly effective in automated SAW production lines where high deposition rate, stable performance, and dependable weld quality are essential for large-scale manufacturing projects.

### Typical Chemical Composition(%):

	C	Si	Mn	S	P	Ni	Cr	Mo	Cu
<b>Requirement</b>	0.06-0.15	0.20-0.65	1.50-2.0	0.025	0.025	---	---	---	0.35
<b>Actual Result</b>	0.07	0.49	1.85	0.015	0.015	---	---	---	0.15

### Typical Mechanical Properties:

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