

# AK EA1TiB

## Description

EA1TiB is a submerged arc welding wire developed to deliver stable arc behavior, refined weld metal structure, and reliable mechanical performance. With Ti-B alloying support, it helps achieve sound weld deposits, uniform bead formation, and dependable toughness in carbon steel and selected low-alloy steel welding applications.

## Application Scenario

EA1TiB is suitable for steel structure fabrication, bridge components, heavy equipment, pressure vessel parts, and industrial machinery. It is a practical option for manufacturers requiring improved weld quality, steady operation, and reliable toughness performance in automated SAW lines for medium and thick steel sections.

### Typical Chemical Composition(%):

	C	Si	Mn	S	P	Ni	Cr	Mo	Cu
<b>Requirement</b>	0.05-0.15	0.35	0.65-1.0	0.025	0.025	---	---	0.45-0.65	0.35
<b>Actual Result</b>	0.10	0.25	0.86	0.015	0.010	---	---	0.52	0.20

### Typical Mechanical Properties:

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