

AK E91T1-B3M

Description: E91T1-B3 is a titania slag formulation flux cored wire for single or multi-pass welds on 2.25% Cr 1.0% Mo steels used for high-pressure steam pipes of boilers, power generation plant equipment, oil refining processing equipment, pressure vessels, and castings of the same alloy content. The weld deposits are designed to operate at high-temperature service.

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Mo	Cr	—	—
Requirement	0.05	0.80	1.25	0.03	0.025	0.9-1.2	2.0-2.5	—	—
Actual Result	0.037	0.13	0.79	0.009	0.019	1.02	2.29	—	—

Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact values (J)
Requirement	620-760	≥ 540	≥ 17	≥ 27J
Actual Result	635	555	19	46 62 51