

AK E111T1-K3

Description: E111T1-K3 is a high-strength rutile-type flux cored arc welding (FCAW) wire designed for welding high-strength low-alloy (HSLA) steels. It is classified under AWS A5.29 as a 110 ksi (760 MPa class) tensile strength consumable and is commonly used in demanding structural, heavy fabrication, and offshore applications.

Application: E111T1-K3 is typically used for welding: Heavy Structural Steel (High-rise buildings、Steel frameworks、Structural beams) ; Offshore and Marine Structures (Platforms、Jackets、Support structures) ; Heavy Equipment & Machinery (Construction machinery、Mining equipment、High-load components)

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Cr	Ni	Mo	V
Requirement	0.15	0.80	0.75-2.25	0.03	0.03	0.15	1.25-2.60	0.25-0.65	0.05
Actual Result	0.07	0.60	1.52	0.001	0.015	0.08	2.41	0.30	0.03

Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	760-900	680	≥15	≥27J(-18°C)
Actual Result	820	715	21	48