

# AK E110C-K4

**Description:** E110C-K4 is a high-strength metal-cored welding wire designed for gas metal arc welding (GMAW). It is classified under the standards of the American Welding Society and intended for welding high-strength low-alloy (HSLA) steels requiring tensile strength around 110 ksi (approximately 760 MPa).

**Application:** E110C-K4 is widely used in: Heavy equipment manufacturing、 Mining machinery、 Crane booms and lifting structures、 Offshore structural components、 High-strength steel fabrication、 Pressure vessel structural parts (non-corrosion critical zones), It is especially suitable where both high strength and productivity are required.

## Typical Chemical Composition(%):

	C	Si	Mn	S	P	Cr	Ni	Mo	V
<b>Requirement</b>	0.15	0.80	0.75-2.25	0.025	0.025	0.15-0.65	0.50-2.50	0.25-0.65	0.03
<b>Actual Result</b>	0.07	0.46	1.80	0.002	0.020	0.41	2.15	0.36	0.02

## Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
<b>Requirement</b>	760	680	≥15	≥27J(-50°C)
<b>Actual Result</b>	824	723	22	54