

AK E90C-K3

Description: E90C-K3 is a gas-shielded metal-cored wire that conforms to the high-strength classification in the American Welding Society standard and is commonly used for welding low-alloy steel structures that require high strength and impact toughness.

Application: E90C-K3 is commonly used in: engineering machinery structural components, heavy truck frames, crane booms, pressure vessel structures, and offshore platform structural components.

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Cr	Ni	Mo	V
Requirement	0.15	0.80	0.75-2.25	0.025	0.025	0.15	0.50-2.50	0.25-0.65	0.03
Actual Result	0.07	0.45	1.70	0.001	0.015	0.03	2.10	0.40	0.01

Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	620	540	≥18	≥27J(-51℃)
Actual Result	665	580	22	51