

# AK E71T-9C

**Description:** E71T-9C is specifically designed for high-deposition structural welding. It produces deep penetration, stable arc performance, and strong mechanical properties, making it highly suitable for heavy fabrication environments.

**Application:** E71T-9C is widely used in: Steel building frames; Columns and beams; Warehouse structures; Industrial platforms; Commercial construction projects. Its high deposition rate improves productivity in repetitive welding operations common in structural workshops.

## Typical Chemical Composition(%):

	C	Si	Mn	S	P	Cr	Ni	Mo	V
<b>Requirement</b>	0.12	0.90	1.75	0.03	0.03	0.20	0.50	0.30	0.08
<b>Actual Result</b>	0.046	0.50	1.20	0.005	0.013	0.02	0.01	0.01	0.01

## Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
<b>Requirement</b>	480-660	400	≥22	≥27J(-20°C)
<b>Actual Result</b>	570	495	26	60

## Recommended welding parameters:

Diameter/ mm	1.0	1.2	1.6	---
<b>Welding voltage/V</b>	15-20	20-32	20-38	---
<b>Welding current/A</b>	80-150	140-300	180-400	---