

AK E70T-5M

Description: E70T-5M is designed primarily for welding medium to thick carbon steel plates in flat and horizontal fillet positions. It produces deep penetration, a stable arc, and a strong slag system that supports high-deposition welding in heavy fabrication environments.

Application: E70T-5M is widely used in industries where strength, productivity, and reliability are critical. Offshore and Oil & Gas Structures; Shipbuilding and Marine Fabrication; Heavy Steel Fabrication; Structural Carbon Steel Projects.

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Cr	Ni	Mo	V
Requirement	0.12	0.90	1.75	0.03	0.03	0.20	0.50	0.30	0.08
Actual Result	0.06	0.51	1.23	0.002	0.013	0.02	0.01	0.01	0.01

Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	490-670	390	≥22	≥58J(-40°C)
Actual Result	565	460	32	72

Recommended welding parameters:

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