



GB/T 12470F76A4-

AWS A5.23 EM3

EN ISO 26304-

AK EM3

Description

EM3 is a submerged arc welding wire designed for dependable welding performance, good penetration, and uniform weld metal formation. It provides stable operation and reliable mechanical properties, making it suitable for carbon steel and related industrial welding applications that require consistent quality and productivity.

Application Scenario

EM3 is suitable for use in shipbuilding, bridge fabrication, heavy structural components, industrial equipment, and steel processing plants. It performs effectively in automated SAW systems where manufacturers need steady wire feeding, consistent bead shape, and durable weld joints for large-scale fabrication work.

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Cr	Mo	Ni	V
Requirement	0.10	0.20-0.60	1.40-1.80	0.015	0.010	0.55	0.25-0.65	1.90-2.60	0.04
Actual Result	0.08	0.47	1.50	0.005	0.003	0.25	0.40	2.28	0.01

Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	---	---	---	---
Actual Result	---	---	---	---