



GB/T 12470F76A4-

AWS A5.23 EM2

EN ISO 26304-

AK EM2

Description

EM2 is a solid submerged arc welding wire offering stable arc performance, smooth feeding, and sound weld deposit quality. It is suitable for carbon steel welding applications where reliable mechanical properties, clean bead appearance, and efficient welding productivity are required in automatic or semi-automatic operations.

Application Scenario

EM2 is widely applied in steel construction, machinery manufacturing, pipeline sections, storage tanks, and pressure vessel fabrication. It is well suited for producers seeking consistent weld quality, efficient deposition, and stable performance in repetitive production processes involving medium and thick steel plates.

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Cr	Mo	Ni	V
Requirement	0.10	0.20-0.60	1.25-1.80	0.015	0.010	0.30	0.25-0.55	1.40-2.10	0.05
Actual Result	0.07	0.35	1.54	0.005	0.008	0.11	0.42	1.68	0.01

Typical Mechanical Properties:

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