

AWS A5.23 EA2TiB

EN ISO 14171

EA2TiB

Description

EA2TiB is a submerged arc welding wire formulated for stable welding performance, good penetration, and enhanced weld metal toughness. Its Ti-B design supports consistent mechanical properties, smooth operation, and uniform weld appearance, making it suitable for demanding carbon steel and low-alloy steel fabrication projects.

Application Scenario

EA2TiB is commonly used in bridge construction, offshore structures, ship sections, pressure vessels, and heavy steel fabrication. It is especially suitable for automated submerged arc welding applications where manufacturers require dependable toughness, consistent weld integrity, and stable productivity in thick-plate welding environments.

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Ni	Cr	Mo	Cu
Requirement	0.05-0.17	0.35	0.95-1.35	0.025	0.025	—	—	0.45-0.65	0.35
Actual Result	0.15	0.23	1.16	0.015	0.010	—	—	0.57	0.20

Typical Mechanical Properties:

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