

AWS A5.23 F8A/P0-EA2-A2

EN ISO 14171-A:S 46 2 FB S2Mo

AK EA2

Description: EA2 is a low alloy high strength steel submerged arc welding wire. With the corresponding flux, excellent comprehensive mechanical properties can be obtained.

Application: With flux (such as AKJ101, AKJ105, etc.) for the welding of low-alloy steel and high-strength steel such as Q420.

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Ni	Cr	Mo	Cu
Requirement	0.05-0.17	0.20	0.95-1.35	0.025	0.025	—	—	0.45-0.65	0.35
Actual Result	0.09	0.12	1.12	0.005	0.009	—	—	0.53	0.20

Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	550-700	≥470	20	27J(-20℃)
Actual Result	616	537	27	112