

AWS A5.23 F9A/P0-EA3-A3

EN ISO 24598-A

EA3

Description: EA3 is a low alloy high strength steel submerged arc welding wire. With the corresponding flux, a weld with excellent mechanical properties and crack resistance can be obtained.

Application: Combined with flux (such as AKJ101, AKJ113, HJ250, etc.) for the welding of low-alloy high-strength structural steels such as Q490, 12 MnNiVR, 08 MnNiVR, etc..

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Ni	Cr	Mo	Cu
Requirement	0.05-0.17	0.20	1.65-2.20	0.025	0.025	—	—	0.45-0.65	0.35
Actual Result	0.13	0.15	2.15	0.010	0.015	—	—	0.60	0.20

Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	620-760	≥ 540	17	27J(-20℃)
Actual Result	660	561	26	111