



GB/T 36034 S 62A.P4 FB-SUN2M33

AWS A5.23 F9A/P4-EF3

EN ISO 26304 - B:S 62AP4 FB SUN2M33

AK EF3

Description: EF3 is a low alloy high strength steel submerged arc welding wire. The content of S and P is low, and the mechanical properties are good.

Application: With AKJ616 flux, it is suitable for submerged arc welding of nuclear power, boiler, pressure vessel ASME SA508 Gr.3 Class 1, 13MnNiMoR and other steels.

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Ni	Cr	Mo	—
Requirement	0.17	0.8	1.25-2.25	0.03	0.03	0.70-1.10	—	0.40-0.65	—
Actual Result	0.06	0.51	1.50	0.007	0.010	0.89	—	0.48	—

Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	620-760	≥ 540	20	27J(-40℃)
Actual Result	675	596	26	143