



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	Cu
<b>Requirement</b>	0.10-0.18	0.30	1.50-2.40	0.025	0.025	0.70-1.10	—	0.40-0.65	0.35
<b>Actual Result</b>	0.16	0.20	2.17	0.007	0.010	0.89	—	0.48	0.30

## Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
<b>Requirement</b>	620-760	≥ 540	20	27J(-40°C)
<b>Actual Result</b>	675	596	26	143