

AK E312-16

Description: E312-16 is a stainless steel welding rod designed for welding a variety of difficult-to-weld dissimilar steels, such as hardened steel, high-strength steel, wear-resistant steel, and high-temperature alloy components for turbine jet engines. It features high-strength, high-ductility weld metal, an easy-to-control arc, and self-dropping slag, making it suitable for welding various types of steel, particularly horizontal fillet welds.

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Ni	Mo	Cr	Cu
Requirement	0.15	1.0	0.5-2.5	0.03	0.03	8.0-10.5	0.75	28.0-32.0	0.75
Actual Result	0.063	0.78	1.26	0.011	0.027	8.76	0.04	29.78	0.03

Typical Mechanical Properties:

	Tensile strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥ 660		≥22	
Actual Result	710		27	