



GB/T 17493 E691T1-K3M

AWS A5.29 E101T1-K3M

EN ISO 18276-A:T552 Mn2NiP M21 1

AK-69M

Description: It is a seamless rutile flux cored wire which contains 2%Ni; Due to its seamless characteristic, the wire has an extremely low hydrogen content (typical 3ml/100g weld metal), which can effectively reduce the risk of hydrogen-induced cracks; It has a stable welding arc with less spatter and perfect bead surface, it also has excellent weldability.

Application: Welding for port machinery, bridges, such as HY-100, A514 high strength steel.

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Ni	Cr	Mo	
Requirement	0.15	0.80	0.5-2.25	0.03	0.03	1.25-2.60	0.15	0.25-0.65	—
Actual Result	0.04	0.30	1.30	0.005	0.010	2.20	0.02	0.30	—

Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)		
Requirement	690-830	≥610	≥ 16	≥27(-20℃)	-40℃	-60℃
Actual Result	710	660	22	143	130	80

Recommended welding parameters:

Diameter/ mm	1.2	1.6		
Welding voltage/V	20-32	25-35	—	—
Welding current/A	180-300	250-350	—	—