

# AK ER410NiMo

**Description:** ER410NiMo is a martensitic stainless welding wire alloyed with about 13% chromium, 4.5% nickel, and 0.5% molybdenum. It is designed for welding similar martensitic and martensitic-ferritic steels, providing good strength, sound weldability, and useful toughness for demanding stainless repair and joining work.

**Application Scenario:** ER410NiMo is often used for hydro-turbine parts, pump and valve components, and repair or joining of CA6NM castings. It fits applications that require martensitic stainless weld metal with good mechanical performance in power, water, and industrial equipment service.

### Typical Chemical Composition(%):

	C	Cr	Ni	Mo	Mn	Si	P	S	Cu
<b>Requirement</b>	0.06	11.0-12.5	4.0-5.0	0.4-0.7	0.60	0.50	0.030	0.030	0.75
<b>Actual Result</b>	0.03	11.64	4.36	0.60	0.30	0.40	0.015	0.015	0.20

### Typical Mechanical Properties:

	Tensile strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
<b>Requirement</b>	760		15	
<b>Actual Result</b>	840		36	