

# AK ER309Mo

## Description:

ER309Mo is a molybdenum-bearing stainless steel wire for dissimilar welding and corrosion-resistant overlay applications. It combines the crack resistance of 309-type fillers with improved resistance to pitting and chemical attack, making it suitable for more demanding service conditions.

## Application Scenario:

ER309Mo is used for joining stainless steel to carbon steel in corrosive environments, as well as for cladding and repair welding on process equipment. It is suitable for chemical plants, offshore components, pressure equipment, and industrial fabrications exposed to aggressive media.

## Typical Chemical Composition(%):

	C	Cr	Ni	Mo	Mn	Si	P	S	Cu
<b>Requirement</b>	0.12	23.0-25.0	12.0-14.0	2.0-3.0	1.0-2.5	0.30-0.65	0.030	0.030	0.75
<b>Actual Result</b>	0.08	24.38	12.85	2.74	2.15	0.48	0.010	0.010	0.35

## Typical Mechanical Properties:

	Tensile strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
<b>Requirement</b>	550		30	
<b>Actual Result</b>	630		34	