

# AK ER320

## Description:

ER320 is a stainless steel welding wire formulated for Alloy 20 and similar corrosion-resistant alloys. It offers excellent resistance to sulfuric acid and other aggressive chemical environments, while providing stable welding characteristics, sound mechanical properties, and reliable weld metal performance.

## Application Scenario:

ER320 is widely used for chemical processing equipment, storage tanks, reactors, piping systems, and heat exchangers handling sulfuric acid and other corrosive chemicals. It is ideal for fabrication and repair work in fertilizer plants, acid service, and demanding industrial process environments.

## Typical Chemical Composition(%):

	C	Cr	Ni	Mo	Mn	Si	P	S	Cu
<b>Requirement</b>	0.07	19.0-21.0	32.0-36.0	2.0-3.0	2.50	0.60	0.030	0.030	0.75
<b>Actual Result</b>	0.04	20.54	34.85	2.25	1.95	0.40	0.015	0.015	0.40

## Typical Mechanical Properties:

	Tensile strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
<b>Requirement</b>	550		30	
<b>Actual Result</b>	590		36	