

AK ER320LR

Description:

ER320LR is a low-residual version of ER320 developed for welding Alloy 20 and related materials in severe corrosive service. It delivers excellent resistance to chemical attack, good crack resistance, and dependable weld quality, making it suitable for critical corrosion-resistant fabrication work.

Application Scenario:

ER320LR is commonly used in chemical plants, pickling equipment, acid storage systems, and process piping exposed to strong acids and aggressive media. It is especially suitable for applications requiring cleaner weld deposits, improved reliability, and long-term corrosion resistance in harsh environments.

Typical Chemical Composition(%):

	C	Cr	Ni	Mo	Mn	Si	P	S	Cu
Requirement	0.025	19.0-21.0	32.0-36.0	2.0-3.0	1.50-2.0	0.15	0.030	0.030	0.75
Actual Result	0.01	20.52	34.55	2.56	1.85	0.11	0.015	0.015	0.30

Typical Mechanical Properties:

	Tensile strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	520		30	
Actual Result	580		36	