AWS A5.9 ER308LMo

AK ER308LMo

Description:

ER308LMo is a low-carbon, molybdenum-alloyed stainless steel wire offering excellent weldability and improved resistance to intergranular attack after welding. It delivers dependable corrosion resistance, clean bead appearance, and sound mechanical properties for demanding stainless fabrications.

Application Scenario:

ER308LMo is suitable for pressure vessels, pipelines, storage tanks, and processing equipment operating in corrosive media. It is often selected for low-carbon stainless assemblies in chemical, pharmaceutical, and food-processing applications where weld integrity and corrosion performance are critical.

Typical Chemical Compostion(%):

	C	Cr	Ni	Mo	Mn	Si	P	S	Cu
Requirement	0.04	18.0-21.0	9.0-12.0	2.0-3.0	1.0-2.5	0.30-0.65	0.030	0.030	0.75
Actual Result	0.02	19.0	11.35	2.50	1.55	0.45	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		38	