AWS A5.9 ER308Mo

AK ER308Mo

Description:

ER308Mo is a molybdenum-bearing austenitic stainless steel wire developed for applications requiring better corrosion resistance than standard 308-type fillers. It provides stable weldability, sound mechanical properties, and improved resistance to pitting in chloride-containing environments.

Application Scenario:

ER308Mo is used for stainless equipment, piping, and fabricated parts exposed to mildly aggressive chemicals, humid service, or chloride-bearing conditions. It is suitable for chemical processing, marine-related fabrication, and industrial components where added corrosion protection is needed.

Typical Chemical Compostion(%):

	C	Cr	Ni	Mo	Mn	Si	P	S	Cu
Requirement	0.08	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	0.06	19.52	11.20	2.40	1.52	0.43	0.015	0.015	0.40

Typical Mechanical Properties:

	Tensile strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	550		30	
Actual Result	610		42	