

# AK ER316Si

**Description:** ER316Si is a silicon-enhanced molybdenum-bearing stainless welding wire designed to improve puddle fluidity, wetting, and bead appearance. It delivers the corrosion resistance associated with 316-type fillers while helping produce smoother weld toes and cleaner-looking results in TIG or MIG stainless welding.

**Application Scenario:** ER316Si is ideal for stainless tanks, pipelines, food and chemical equipment, and precision fabrications where appearance and corrosion resistance both matter. It is especially suitable for thinner sections and production welding that benefit from smooth, well-wetted bead profiles.

## Typical Chemical Composition(%):

	C	Cr	Ni	Mo	Mn	Si	P	S	Cu
<b>Requirement</b>	0.08	18.0-20.0	11.0-14.0	2.0-3.0	1.0-2.5	0.65-1.0	0.030	0.030	0.75
<b>Actual Result</b>	0.04	18.65	12.95	2.85	2.15	0.76	0.010	0.010	0.35

## Typical Mechanical Properties:

	Tensile strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
<b>Requirement</b>	---		---	
<b>Actual Result</b>	620		38	