

AK ER55-D2-Ti

Description: AK-ER55-D2-Ti is a CO₂ gas shielded welding wire with H10Mn2SiMoTiA disc element and copper plated surface. The welding wire can be gas shielded by CO₂ or Ar-CO₂, and the welding process is good. Because it contains an appropriate amount of titanium, it is beneficial to the grain refinement of the weld structure and to obtain good mechanical properties.

Application : It is suitable for welding low-alloy high-strength steel structures with a tensile strength of 550MPa, such as vehicles, ships, bridges, pipelines, power stations, and containers. High-rise buildings, petrochemicals, Chengong machinery, lifting and transportation equipment, boilers and pressure vessels, etc..

Typical Chemical Composition(%):

	C	Mn	P	S	Si	Cu	Mo	Ti	Other
Requirement	0.12	1.2-1.9	0.025	0.025	0.4-0.8	0.50	0.20-0.50	0.20	0.50
Actual Result	0.078	1.65	0.015	0.012	0.62	0.12	0.35	0.008	0.50

Typical Mechanical Properties :

	Tensile strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥ 550	≥470	≥ 17	≥ 2 7J (2 5 ℃)
Actual Result	660	580	24	100