

AK ER55-D2

Description: AK-ER55-D2 is a CO₂ gas shielded welding wire with H10Mn2SiMoA disc element and copper plated surface. The welding wire can be gas shielded by CO₂ or Ar-CO₂, and the welding process is good.

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	Ni	Other
Requirement	0.07-0.12	1.6-2.1	0.025	0.025	0.50-0.8	0.50	0.40-0.6	0.15	0.50
Actual Result	0.085	1.85	0.014	0.012	0.65	0.12	0.45	0.01	0.50

Typical Mechanical Properties :

	Tensile strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥ 550	≥470	≥ 17	≥ 27J (25 °C)
Actual Result	650	560	24	100