



GB/T 13814 ENi4060

AWS A5.14 ERNiCu-8

EN ISO 14172-ENi 4060

AK ERNiCu-8

Description: ERNiCu-8 is a solid nickel-copper alloy welding wire primarily used in MIG/GMAW or TIG/GTAW welding processes. This welding wire is based on a Ni-Cu alloy, with appropriate amounts of Mn, Ti, Al, and other elements added to improve the weld's crack resistance, strength, and corrosion resistance. The weld metal exhibits excellent resistance to seawater corrosion, chloride corrosion, high strength, good toughness, and good crack resistance.

Application: Widely used in: marine engineering, petrochemicals, seawater desalination equipment, shipbuilding industry, pump and valve manufacturing, heat exchanger equipment

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Fe	Ni	Cu	Ti
Requirement	0.25	1.0	1.50	0.015	0.030	2.0	63.0-70.0	Rem.	0.25-1.0
Actual Result	0.15	0.80	1.26	0.008	0.010	1.0	65.9	Rem.	0.52

Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥480	≥240	30	
Actual Result	492	285	36	