

AK TH550NQ-II

Description: TH550NQ-II is a low-alloy weathering steel Ar-rich (80%Ar+20%CO₂) gas shielded welding wire. Because the welding wire contains an appropriate amount of alloy components such as Cu, Cr, and Ni, and the content of S and P is strictly controlled, the weld has Excellent atmospheric corrosion resistance, greatly improve the service life of the product and meet the needs of various specific climatic conditions, the weld metal has excellent mechanical properties and good crack resistance.

Application: For welding of Q450NQR1 and equivalent grade weathering steel.

Typical Chemical Composition(%):

	C	Mn	P	S	Si	Ni	Cu	Cr	—
Requirement	0.10	1.2-1.6	0.025	0.020	0.60	0.20-0.6	0.20-0.50	0.30-0.9	—
Actual Result	0.08	1.45	0.012	0.010	0.52	0.35	0.21	0.41	—

Typical Mechanical Properties :

	Tensile strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥ 550	≥450	≥ 22	≥60J(-40℃)
Actual Result	608	510	26	88