

AK ER420

Description: ER420 is a martensitic stainless welding wire designed for steels of similar composition and for hard, wear-resistant overlays. Compared with 410-type wire, it contains higher carbon and chromium, which gives the weld metal higher hardness while maintaining stable feeding and arc performance in MIG welding.

Application Scenario: ER420 is commonly used for hydraulic equipment parts, impellers, pump shafts, and overlay work on components that need wear resistance and hardness. It is suitable for repair or fabrication jobs where a harder martensitic stainless deposit is required.

Typical Chemical Composition(%):

	C	Cr	Ni	Mo	Mn	Si	P	S	Cu
Requirement	0.25-0.40	12.0-14.0	0.60	0.75	0.60	0.50	0.030	0.030	0.75
Actual Result	0.30	13.85	0.20	0.20	0.10	0.20	0.015	0.015	0.30

Typical Mechanical Properties:

	Tensile strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement				
Actual Result	720		20	