

AK ER316H

Description:

ER316H is a high-carbon molybdenum-bearing stainless steel welding wire developed for 316H and similar austenitic stainless steels. It offers good high-temperature strength, reliable corrosion resistance, stable arc performance, and sound weld integrity in elevated-temperature service conditions.

Application Scenario:

ER316H is commonly used for boilers, heat exchangers, pressure piping, furnace components, and petrochemical equipment operating at elevated temperatures. It is suitable for fabrications where higher creep strength and dependable corrosion resistance are required in long-term heat service.

Typical Chemical Composition(%):

	C	Cr	Ni	Mo	Mn	Si	P	S	Cu
Requirement	0.04-0.08	18.0-20.0	11.0-14.0	2.0-3.0	1.0-2.5	0.30-0.65	0.030	0.030	0.75
Actual Result	0.05	19.62	13.52	2.50	1.50	0.40	0.015	0.015	0.50

Typical Mechanical Properties:

	Tensile strength (MPa)	Yield Stress(MPa)	Elongation (%)	Impact Values (J)
Requirement	520		30	
Actual Result	620		34	