

AKR307L

GB/T 5118 E5515-B2L AWS A5.5 E8016-B2 EN ISO 3580 B E5516-1CM

Description: AKR307L is a kind of low carbon heat-resistant steel electrode with low-hydrogen natrium type coating. It has excellent technological performance, low spatter, good slag detachability, beautiful appearance of weld. DCRP (Direct Current Reversed Polarity). All-position welding. short-arc welding. The weld ments should be given preheating to $160 \sim 220$ °C before welding The weld ments should be given tempering at 680 - 720 °C after welding.

Application: Used for welding Cr1.0%-Mo0.5% heat-resistant steel below $520^{\circ}C$, such as boiler pipes, high pressure vessels, equipment for petroleum refining, etc. Also used for welding 30CrMoSi cast steel.

Typical Chemical Compostion(%):

	С	Mn	Р	S	Si	Cr	Мо	
Requirement	0.05	0.90	0.03	0.03	1.0	1.0-1.5	0.4-0.65	
Actual Result	0.046	0.75	0.009	0.006	0.35	1.2	0.58	

Typical Mechanical Properties : 1)=normaltemperature

	Tensile strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	≥ 520	≥ 390	≥ 17	2 7J / ①
Actual Result	590	480	26	180J/①

Recommended welding parameters:

Diameter / mm	2.5	3.2	4.0	5.0	
Electrode Length(mm)	300 350		400	400	
Welding Current (A)	60-90	90-120	140-180	170-210	

Notes on Usages:

- 1. The electrodes must be baked at 350~380 ℃ for an hour before welding and used as soon as baking is completed.
- 2. The stains on the weldments, such as rust, oil stains, moisture, etc., must be cleared away before welding