

AKD802

Deposited metal hardness: HRC≥40

Description: AKD802 is a surfacing electrode with titanium-calcium coating and cobalt-chromium-tungsten alloy core. DC reverse connection should be adopted. Surfacing metal can still maintain good wear resistance and corrosion resistance at 650°C.

Application: Used in occasions where good wear resistance and certain corrosion resistance are required to work at around 650°C, such as surfacing high temperature and high pressure valves and hot shear knives, etc., where impact and cold and heat are interlaced.

Typical Chemical Composition(%):

	C	Cr	W	Mn	Si	Fe	Co	Other
Requirement	0.7-1.4	25.0-32.0	3.0-6.0	2.0	2.0	5.0	Rem	4.0
Actual Result	1.12	29.2	4.8	1.05	0.49	3.5	Rem	2.02

Recommended welding parameters

Diameter/ mm	3.2	4.0	5.0	— —
Electrode Length (mm)	350	350	350	— —
Welding Current(A)	120-160	140-190	150-210	— —

1. The electrode must be baked at about 150°C for 1 hour before welding
2. According to the size of the workpiece and the type of base metal, it must be preheated at 300-600°C. Low current short arc welding should be used.
3. After welding, it should be tempered at 600-700°C for 1 hour and then slowly cooled, or the workpiece should be placed in a dry and hot sand box or plant ash and cooled slowly to avoid cracks.