



Supplier of Welding Alloys

## Cobalt Flux Coated Electrodes

### Oxford Alloy® #1

**SPECIFICATIONS**

AWS 5.13  
ASME SFA 5.13

**CLASSIFICATIONS**

AWS ECoCr-C  
UNS W73001

**DESCRIPTION / APPLICATION**

Oxford Alloy #1 Coated is a non-ferrous, cobalt-chromium-tungsten alloy. This electrode is recommended for applications involving severe abrasion accompanied by heat and/or corrosion with moderate impact. The Oxford Alloy #1 Coated has a carbon content of 2.5 percent, which gives it a relatively high volume of carbides within its structure. Oxford Alloy #1 Coated weld deposits are smooth. It acquires a mirror-like finish in use and retains wear resistance at high temperatures. This alloy is nonmagnetic and is not forgeable. It can be machined with difficulty using carbide tools. Oxford Alloy #1 Coated bonds well with weldable alloy steels, including stainless.

AWS Chemical Composition						
C	Co	Cr	W	Mn	Si	Ni
1.7-3.0	Bal	25-33	11-14	2.0 max	2.0 max	3.0 max
Mo	Fe	OET				
1.0 max	5.0 max	1.0 max				

**TYPICAL MECHANICAL PROPERTIES**

Hardness: 43-58 HRC

Note: The typical hardness values listed above are for multilayer welds. Hardness values for single deposits will be lower because of dilution from the base metal.

Please contact our sales department for more information at 800-562-3355 or 225-273-4800.

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