Oxford® ALLOYS, Inc.
Supplier of Welding Alloys

Cobalt Flux Coated Electrodes

Oxford Alloy® #12

SPECIFICATIONS
AWS 5.13
ASME SFA 5.13

CLASSIFICATIONS
AWS ECoCr-B
UNS W73012

DESCRIPTION / APPLICATION
Oxford Alloy #12 Coated is a non-ferrous, cobalt-chromium-tungsten alloy. This electrode is recommended for metal–to-metal abrasion involving high temperature and/or corrosive media with moderate impact. Oxford Alloy #12 Coated weld deposits are smooth and it acquires a high polish in use. This alloy is nonmagnetic and is not forgeable. It can be machined with difficulty using carbide tools. Oxford Alloy #12 Coated bonds well with weldable alloy steels, including stainless.

AWS Chemical Composition

C	Co	Cr	W	Mn	Si	Ni
1.0-1.7	Bal	25-32	7.0-9.5	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: 34-47 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.