Oxford® ALLOYS, Inc.
Supplier of Welding Alloys

Nickel Alloy Coated Electrodes

Oxford Alloy® C-276

SPECIFICATIONS
AWS 5.11
ASME SFA 5.11

CLASSIFICATIONS
AWS ENiCrMo-4
UNS W80276

DESCRIPTION / APPLICATION
Oxford Alloy C-276 is a solid solution, nickel-molybdenum-chromium, corrosion-resistant alloy. This electrode is used for dissimilar welding between nickel base alloys and stainless steels, as well as for surfacing and cladding. Oxford Alloy C-276 is also used as a matching composition filler material for welding alloy C-276 wrought and cast products. Due to the high molybdenum content that this alloy offers excellent resistance to stress corrosion, cracking and pitting and crevice corrosion.

AWS Chemical Composition

C	Mn	Si	Fe	Mo	W	S
0.02 max	1.0 max	0.2 max	4.0-7.0	15.0-17.0	3.0-4.5	0.03 max
P	**Cr**	**Ni**	**Cu**	**V**	**Co**	**OET**
0.04 max	14.5-16.5	Bal	0.50 max	0.35 max	2.5 max	0.50 max

TYPICAL MECHANICAL PROPERTIES

Tensile strength:	106,000 psi	730 Mpa
Yield strength:	78,500 psi	540 MPa
Elongation:	39%	

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