

ใบรับรองลาวดเชื่อมนิกเกิล ERNi-1

**Ampco Metal Incorporated**  
**A UNITED STARS COMPANY**

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Date Signed \_\_\_\_\_

Ampco Metal certifies that all tests, including this report and the results of tests and values listed herein are in full conformance with all purchase order and specification requirements. Further, the values shown represent the actual values obtained during testing, using the sample selection and test methods specified in the applicable material specification. It is also understood that knowingly and willfully falsifying or concealing a material fact on this form, or making false, fictitious or fraudulent statements or representations herein could constitute a felony jurisdiction under Federal Statutes. All material supplied is also free from mercury alpha or radium contamination and was melted in the U.S.A.

Your P.O. PF/AM	Date Shipped	
Our Order No 43886	Quantity 80#, 8 PCS	
Your Part No. Item 09	Specification Copr-Trode	
3/32" DIA X 36"	AWS A5.7-84 Class ERCu	
BARE ROD	LESS TESTING	

THESE COMMODITIES, TECHNOLOGY, OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

**CHEMICAL ANALYSIS**

Ni-Less than .01%

Lot Number	JCT		
No. Pieces			
Copper Incl. Silver	98.0 Min		
Aluminum	.01 Max		
Manganese	.50 Max		
Tin	1.0 Max		
Lead	.02 Max		
Silicon	.50 Max		
Phosphorus	.15 Max		
Others	.50 Max		

**CHEMICAL ANALYSIS PER FED-STD-151 UNLESS OTHERWISE NOTED.**

<input type="checkbox"/> Issued by Ampco Metal, Milwaukee, WI Unless indicated otherwise.	Unless otherwise noted all tests performed by Ampco
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**AMPCO METAL**  
 Mary E. Kulas  
  
 Authorized Representative  
 Material Control  
 Material Certification Analyst

Manufacturer of Superior Extruded & Continuous Cast Ampco Metal Alloys

ใบรับรองการเชื่อมทองแดง ERCu

**INSPECTION CERTIFICATE**

N. : 63693  
 Rancate : 13/12/2010

RICH-TEK INTERWELD CO.,LTD.  
 309/73 MOO 10, SUANLUANG,  
 KHATUMBAN, SAMUTSAKORN  
 THAILAND 74110

EN 10204 2005 3.1  
 ISO10474 1992 3.1.B



Product manufactured in line with regulations established by the Quality Control System conforming to the requirement of ISO 9001:2000, assessed by BUREAU VERITAS and covered by certificate n. 173686

N IVA 189 793 \* Pno Mag 11 \* P.O. Box 23 \* CH-6862 Rancate \* Phone (+41 -91) 640 83 83 \* Fax (+41 -91) 640 83 02

RICH-TEK INTERWELD CO.,LTD.  
 309/73 MOO 10, SUANLUANG,  
 KHATUMBAN, SAMUTSAKORN  
 THAILAND 74110

**PRODUCT DESCRIPTION**

N.	CONFIRM.	PRODUCT	DESCRIPTION	DIAMETER-LENGTH	WEIGHT	YOUR PO	DATE
1	30900 / 006	NR1 NR L	ER NR1 AWS A5.14:ERNI-1 OSWELER NR1-T1	2.4155 MM 2.40	1000 KG 60.0	1032/10.10	11/10/2010

**CHEMICAL ANALYSIS**

N.	LOT.HEAT	C	Mn	SI	S	P	NI	Cr	Mo	Cu	Nb <sup>***</sup>	Ti	Zn	Co	Al	Fe	W	V	Pb	Wre%
1	181031-37130	0.0170	0.3960	0.4380	0.0010	0.0040	95.9000	0.0100	0.0030			2.9900	0.0020	0.0100	0.0830	0.0060				0.0010

Total of other not stated elements : 0,60 MAX

Ferrite according to WRC-1992 diagram. This value is an approximation only.  
 \*\*\*Nb=Nb+Ta Balance = Fe + trace elements

Q.C. Department

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