



**Certificate of Conformance  
to Requirements for Welding Electrode**

McKay

Product Type: Cast-Alloy  
 Classification: ENiCl  
 Specifications: A5.15  
 Diameter Tested:  
 Date Tested:  
 Date Generated: 7/31/2013

This is to certify that the product named above and supplied on the referenced order number is of the same classification, manufacturing process, and material requirements as the material which was used for the test that was concluded on the date shown, the results of which are shown below. All tests required by the specifications shown for classification were performed at that time and the material tested met all requirements. It was manufactured and supplied by the Quality System Program of Hobart Brothers, which meets the requirements of ISO9000, ANSI/AWS A5.01, and other specification and Military requirements, as applicable.

**Mechanical Properties - Tensile**

Size / Polarity	Ref. No.	Testing Conditions	Ult. Tensile Strength	Yield Strength	Elong.% in 2"
5/32X14 in	IT1148	AS WELDED	40,000 psi ( 276 Mpa)	38,000 psi ( 262 Mpa)	4

Size / Polarity	Ref. No.	Radiograph	Fillet Weld Test

**Chemical Analysis**

Size / Polarity / Ref. No.	C	Mn	P	S	Si	Cu	Cr	V	Ni	Mo	Al	Ti	Nb	Co	B	W	Sn	Fe	Sb	N	Mg	Zn	Be
5/32X14 in / CP1148	1.10	0.40			2.70	1.40			89.00									5.50					

Diffusible Hydrogen Collected per AWS A4.3 - ml/100 g weld metal

Steve Knostman , Quality Engineer

The information Certification and Limited Warranty - Data for the above supplied product are those obtained when welded and tested in accordance with the above specification. All tests for the above classification were satisfied. Other tests and procedures may produce different results. Hobart Brothers produces welding consumables under continuing quality assurance programs audited and approved by the American Bureau of Shipping ("ABS").