

Product Type: 6013
 Classification: E6013
 Specifications: AWS A5.1/A5.1M:2004
 Diameter Tested:
 Date Tested:
 Date Generated: 8/31/2007

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	IT1109	As Welded	73,000 psi (501 Mpa)	61,000 psi (423 Mpa)	26
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 / CP1109	0.10	0.28	0.01	0.02	0.27																		

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



Steve Knostman , Quality Engineer



Tom Argabright , Q.C. Technician

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").