



ELECTRALLOY
175 Main Street
On City, PA 16301
PHONE: 814-678-4200
Fax: 814-678-4148

**MATERIAL CERTIFICATION
REPORT and CERTIFICATE
OF QUALITY CONFORMANCE**

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without the written approval of Electralloy

CUSTOMER NAME AND ADDRESS	CUSTOMER ORDER NO. 22031 IDENTIFICATION Heat # E2826
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PRODUCT DESCRIPTION	Nickel Alloy Electro-Slag Remelted Bar, electric arc furnace melted, A.O.D. refined, ESR'ed, hot forged and air cooled, bar peeled with saw cut square ends.
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STATEMENTS

~~have not~~ come in contact with mercury or its compounds.

Material represented was not weld repaired.

Material represented was produced in accordance with the Electralloy Quality Control Program dated 09/26/2006, which meets the requirements of ISO9001(2000), MIL-I-45208A and ASME Code Section 3, Subsection NCA 3800

Material Certification conforms to Certificate 3.1 as in EN 10204.

COMMENTS

* Amend-Reissue - include hardness - DEK - 07-29-08

Note: The recording of false, fictitious, or fraudulent statements or entries on this document may be punishable as a felony under Federal Statute.

The above are true and correct results of tests on samples of the material. Results conform to the specification(s) listed above and are on record.

Meets EU Electrical "RoHS".
 Contains NO "WEEE" relevant substances.
 Complies with DFARS-225.1-Buy American Act-Supplies.

By : Duane E. Kline Date: 07/29/08
 Name : Duane E. Kline
 Title: QC Technician/UT Technician/Works Inspector

HWRR = Minimum Hot Working Reduction Ratio.

E2826

35873-2-05
Revision *1



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SPECIFICATIONS

Type 400 (UNS N04400) - ASTM B164-03, ASTM B564-04a,
QQ-N-281D (Class A, Form 1) - CHEMISTRY ONLY,
ASME SB-164 Including 1998 Winter Addenda,
ASME SB-564 Including 1998 Winter Addenda and any
additional specifications which may be listed below

CHEMICAL ANALYSIS

Heat Number	C	MN	S	SI	NI	CU	FE	AL
E2826	0.143	0.98	0.001	0.20	64.07	32.02	1.14	0.1
	CO	NICO	PB	SN	ZN	P		
	0.04	64.11	0.0019	0.003	< 0.01	0.008		

ITEM DESCRIPTION

Heat Number	HWRR	Quantity & Weight	Size
E2826-1C		1 Bar - 1,495 Lbs.	6" Rd. x 158.75" Lg.

TENSILE PROPERTIES

Heat Number	Test Dir	Test Loc	Tensile (PSI)	.2% Yield (PSI)	Elong 4D (%)	*Brinell 167
E2826-1C	LT	TOP	91610	55440	.35.0	

STATEMENTS

Material represented was melted and manufactured in the USA

At time of shipment, items and/or material produced under this order

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Complies with DFARS-225.1-Buy American Act-Supplies.

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