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METALTEK INTERNATIONAL
 8630 Commercial Blvd.
 Pevely, MO 63070

February 28, 2005
 Lab No. 05P-0554
 P.O. No. 12516
 Page 1 of 2
 (Revised Report 3-2-05)

Attention: Rick Suria

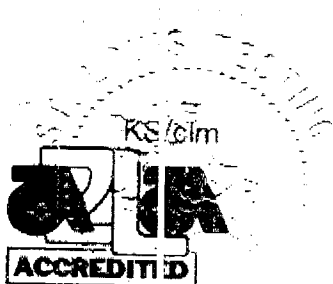
REPORT OF CHARPY IMPACT TEST

MATERIAL (SAMPLE ID): Electrode LNM 4455 & B316NF
SPECIFICATION: ASTM A 370-03a
SPECIMEN TYPE: "A" Vee Notch, All Weld
SPECIMEN SIZE: 10 mm x 10 mm
TEMPERATURE OF TEST: +70°F

RESULTS:

ALL WELD	JOULES	FOOT LBS.	LATERAL EXPANSION	% SHEAR
LNM 4455-7	149	110	0.055	50
LNM 4455-8	130	96	0.050	50
LNM 4455-9	134	99	0.051	50
Average	138	102	0.052	50
ALL WELD	JOULES	FOOT LBS.	LATERAL EXPANSION	% SHEAR
B316NF-7	155	114	0.056	50
B316NF-8	151	111	0.053	50
B316NF-9	146	108	0.052	50
Average	151	111	0.054	50

Identification of tested specimen provided by client.



Karl Schmitz
 Karl Schmitz, Director
 Materials Testing

Certificate No. 0397-11
 Certificate No. 0397-2

AN OFFICIAL COPY OF TEST REPORT WILL BE PROVIDED BY THIS LABORATORY ON REQUEST. DO NOT REPRODUCE.
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 SEE REVERSE FOR CONDITIONS.





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METALTEK INTERNATIONAL
 8600 Commercial Blvd.
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January 10, 2005
 Lab No. 05P-0008
 P.O. No. 12516
 Page 3 of 3

Attention: Chuck Ruud

REPORT OF CHARPY IMPACT TEST

MATERIAL (SAMPLE ID): HT# 27728, Alloy CF8 MnMN-MOD
SPECIFICATION: ASTM A 370-03a
SPECIMEN TYPE: "A" Vee Notch
SPECIMEN SIZE: 10 mm x 10 mm
TEMPERATURE OF TEST: -320°F

RESULTS:

BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
27728-1	98	0.051	50
27728-2	91	0.060	50
27728-3	80	0.045	50
Average	90	0.052	50
BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
27728-4	77	0.038	40
27728-5	86	0.055	50
27728-6	61	0.032	40
Average	75	0.042	43
BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
27728-7	64	0.041	50
27728-8	67	0.043	50
27728-9	72	0.030	40
Average	68	0.038	47

Identification of tested specimens provided by client.

[Signature]
 Karl Schmitz, Director
 Materials Testing



Certificate No. 039-01
 Certificate No. 039-02

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January 10, 2005
 Lab No. 05P-0008
 P.O. No. 12516
 Page 2 of 3

Attention: **Chuck Ruud**

REPORT OF CHARPY IMPACT TEST

MATERIAL (SAMPLE ID): HT# 27728, Alloy CF8 MnMN-MOD
SPECIFICATION: ASTM A 370-03a
SPECIMEN TYPE: "A" Vee Notch
SPECIMEN SIZE: 10 mm x 10 mm
TEMPERATURE OF TEST: +70°F

RESULTS:

BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
27728-1	139	0.097	100
27728-2	119	0.081	100
27728-3	167	0.091	100
Average	142	0.090	100
BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
27728-4	170	0.107	100
27728-5	124	0.071	100
27728-6	129	0.060	100
Average	141	0.079	100
BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
27728-7	141	0.103	100
27728-8	137	0.052	100
27728-9	150	0.114	100
Average	143	0.090	100

Identification of tested specimens provided by client.

Karl Schmitz
 Karl Schmitz, Director
 Materials Testing



Certificate No. 6317-01
 Certificate No. 08-7-02

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