

Westmoreland Mechanical Testing & Research, Inc.
 P.O. Box 388
 Westmoreland Drive
 Youngstown, Pa. 15696-0388 U.S.A.
 Telephone: 724-537-3131 Fax: 724-537-3151
 Website: www.wmtr.com
 WMTR is a technical leader in the material testing industry.

CERTIFICATION

Corrected Date
 June 27, 2006

Section 1 of 1
 WMTR Report No. 6-32175
 P.O. No. 19386
 Requisition No. 6867



Metatek International
 The Carondelet Division
 8600 Commercial Blvd.
 1-55 Industrial Park
 Pavey, MO 63070-1528

Attention: Jim Galaske

Subject: All processes, performed upon the material as received, were conducted at WMTR, Inc. in accordance with the WMTR Quality Assurance Manual, Rev. 9, dated 4/1/2000.
 The following tests were performed on this order: TENSILE

TENSILE RESULTS: ASTM E21-05

Requirements: UTS ksi (Min 95Max ---) 0.2% YS ksi (Min 72Max ---) 4D Elong. % (Min 32Max ---) Modulus Msi (Min 21Max ---)

SOAK TIME: 5 Minutes

SPEED OF TESTING: 0.003 in./in./min., 0.05 in./in./in.

MATERIAL: Metatek CF8MNMNMOD

Coil No.	Specimen Number	Test Log	Temp. °F	UTS ksi	0.2% YS ksi	Elong %	RA %	Modulus Msi	Ult. Load lbf	0.2% YLD. lbf	Orig. Dia. (in.)	Final Dia. (in.)	4D Orig. GL (in.)	4D Final GL (in.)	Orig. Area (sq. in.)	Machine Number	AUUR
B6	Z2	D78484	-320	182.7	112.9	42	47	29.3	9046	5592	0.2511	0.1834	1.00	1.42	0.04952030	M9	A
B6	Z3	D78485	-320	164.3	98.4	51	47	24.1	8147	4880	0.2513	0.1831	1.00	1.51	0.04959922	M9	A
B6	Z1 (R1)	D83725	-320	157.5	98.5	37	46	26.4	7903	4942	0.2528	0.1850	1.00	1.37	0.05019310	M9	A

AUUR: A=ACCEPTABLE, U=UNACCEPTABLE, R=REPORT

DISPOSITION: Acceptable

TENSILE RESULTS: ASTM E21-05

Requirements: UTS ksi (Min 95Max ---) 0.2% YS ksi (Min 72Max ---) 4D Elong. % (Min 32Max ---) Modulus Msi (Min 21Max ---)

SOAK TIME: 5 Minutes

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MATERIAL: Metatek CF8MNMNMOD

Coil No.	Specimen Number	Test Log	Temp. °F	UTS ksi	0.2% YS ksi	Elong %	RA %	Modulus Msi	Ult. Load lbf	0.2% YLD. lbf	Orig. Dia. (in.)	Final Dia. (in.)	4D Orig. GL (in.)	4D Final GL (in.)	Orig. Area (sq. in.)	Machine Number	AUUR
B6	Z1	D79483	-320	152.7	102.1	28	31	28.6	7570	5058	0.2512	0.2082	1.00	1.28	0.04955976	M9	U

AUUR: A=ACCEPTABLE, U=UNACCEPTABLE, R=REPORT

DISPOSITION: Unacceptable

[Signature]
 Roy E. Stammann
 Test Supervisor

Technical Services Manager

June 27, 2006

627-636

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 Locations in Youngstown, PA U.S.A. ~ Tel: (724) 537-3131 and
 Banbury U.K. ~ Tel: +44 (0) 1295 261211

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 Chemical, Metallurgical, Mechanical, Nondestructive, Environmental Testing, Analyses and Field Service.

METALTEK INTERNATIONAL
 8600 Commercial Blvd.
 Pevely, MO 63070

June 30, 2006
 Lab No. 06P-2080
 P.O. No. 21324
 Page 1 of 3

Attention: CHUCK RUUD

REPORT OF MECHANICAL TESTS

SAMPLE ID: B6- Z1, Z2, Z3

Sample ID	Original Area Sq. Inches	Reduced Area Sq. Inches	Reduction In Area %	Modulus of Elasticity	Yield Strength PSI	Tensile Strength PSI	Elongation (2.0" Gage Length)	
							In.	%
Z1	0.1924	0.1257	34.7	23.6	42700	85700	0.88	44.0
Z2	0.2003	0.1288	35.7	23.1	41700	82900	0.89	44.5
Z3	0.1979	0.1359	31.3	22.8	41900	85400	0.89	44.5

Round, reduced section tensiles

Yield taken at .2% offset

Tested in accordance with ASTM A 370-03a

Identification of tested specimens provided by the client

KS/tiv

Karl Schmitz, Director
Materials Testing



Certificate No. 0387-01
 Certificate No. 0387-02

AN OFFICIAL COPY OF TEST REPORT WILL BE PROVIDED BY THIS LABORATORY ON REQUEST.
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June 30, 2006
 Lab No. 06P-2080
 P.O. No. 21324
 Page 2 of 3

Attention: **CHUCK RUUD**

REPORT OF CHARPY IMPACT TEST

MATERIAL (SAMPLE ID): B6- Z1, Z2, Z3
SPECIFICATION: ASTM A 370-03a
SPECIMEN TYPE: "A" Vee Notch
SPECIMEN SIZE: 10 mm x 10 mm
TEMPERATURE OF TEST: 77°K
REQUIREMENTS: 35 ft / lbs min

BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
Z1-7	82	0.048	30
Z1-8	77	0.044	30
Z1-9	75	0.044	30
Average	78	0.045	30
SAMPLE ID	FOOT LBS.	LATERAL EXPANSION	% SHEAR
Z2-7	89	0.047	30
Z2-8	75	0.044	30
Z2-9	77	0.045	30
Average	80	0.045	30
SAMPLE ID	FOOT LBS.	LATERAL EXPANSION	% SHEAR
Z3-7	65	0.040	30
Z3-8	72	0.040	30
Z3-9	79	0.046	30
Average	72	0.042	30

Identification of tested specimen provided by client.

Karl Schmitz, Director
 Materials Testing



Certificate No. 0397-01
 Certificate No. 0397-02

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June 30, 2006
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 P.O. No. 21324
 Page 3 of 3

Attention: **CHUCK RUUD**

REPORT OF CHARPY IMPACT TEST

MATERIAL (SAMPLE ID): B6- Z1, Z2, Z3
SPECIFICATION: ASTM A 370-03a
SPECIMEN TYPE: "A" Vee Notch
SPECIMEN SIZE: 10 mm x 10 mm
TEMPERATURE OF TEST: 293°K
REQUIREMENTS: 50 ft / lbs min

BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
Z1-7	120	0.085	60
Z1-8	101	0.072	60
Z1-9	105	0.080	60
Average	109	0.079	60
SAMPLE ID	FOOT LBS.	LATERAL EXPANSION	% SHEAR
Z2-7	110	0.081	60
Z2-8	112	0.082	60
Z2-9	103	0.075	60
Average	108	0.079	60
SAMPLE ID	FOOT LBS.	LATERAL EXPANSION	% SHEAR
Z3-7	101	0.073	60
Z3-8	122	0.089	60
Z3-9	115	0.080	60
Average	113	0.081	60

Identification of tested specimen provided by client.

Karl Schmitz, Director
 Materials Testing



Certificate No. 0391-01
 Certificate No. 0397-02

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PRODUCT CONFORMANCE REPORT



Product	LNMM 4455	Size(s) mm	1,2
Class.	EN 12072-99: G 20-163 Min L	Lot/Batch	3018513/78308
		Item No.	692129
Customer	EUROWELD MOORESVILLE N.C. 28117 UNITED STATES	Quantity	105,0 KG
		Customer ref.	P.O. 05-46
		LSW Order No.	SD427896

Chemical analysis (%)										EN10204 2.2
C	Si	Mn	P	S	Cr	Ni	Mo	Cu	N	
0,01	0,5	7,3	0,015	0,001	20,3	15,4	2,9	0,1	0,19	

Mechanical tests, all weld metal										EN10204 2.2
Tensile testing					Impact testing					
Cond.	Temp.	Rp0.2	Rm	A5	Cond.	Temp.1	Av1			
	°C	N/mm2	N/mm2	%		°C	J			
AW	RT	407	623	41	AW	-196	67			

Additional information EN10204 2.2

Other tests

Remarks

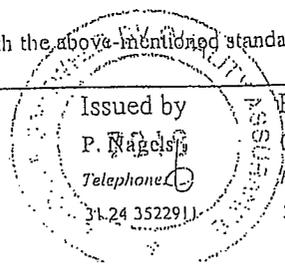
Impact testing (individual values): 70J - 65J - 67J.

The product identified above has been manufactured, tested and supplied in compliance with a Quality Assurance Programme that fulfils the requirements of EN 29000/ ISO 9000/BS 5750 or similar standard.

We herewith certify that the product complies with the above-mentioned standards.

Certified ISO 9001:2000.

Company	Lincoln Smitweld B.V.	Registered Office	Nieuwe Dukenburgseweg 20 6534 AD NIJMEGEN	Post address	P.O. Box 253 6500 AG Nijmegen	Issued by	P. Nagels	Telephone	31 24 3522911	Function	QA Administrator	Date	22/03/2005	Cert.No.	3018513/7830
										Fax:	31 24 3522200				



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August 16, 2005
 Lab No. 05P-2532
 P.O. No. 21324
 Page 1 of 2

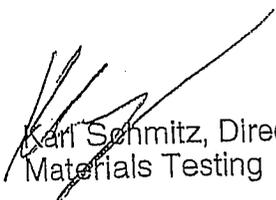
Attention: Chuck Ruud

REPORT OF CHARPY IMPACT TEST

MATERIAL (SAMPLE ID): LNM 4455, LINCOLN LOT 3018513/78308
SPECIFICATION: ASTM A 370-03a
SPECIMEN TYPE: "A" Vee Notch
SPECIMEN SIZE: 10 mm x 10 mm
TEMPERATURE OF TEST: 293°K

BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
LNM4455-7	104	0.085	100
LNM4455-8	106	0.093	100
LNM4455-9	99	0.084	100
Average	103	0.087	100

Identification of tested specimen provided by client.


 Karl Schmitz, Director
 Materials Testing

KS/tlv



Certificate No. 0397-01
 Certificate No. 0397-02

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August 16, 2005
 Lab No. 05P-2532
 P.O. No. 21324
 Page 2 of 2

Attention: **CHUCK RUUD**

REPORT OF MECHANICAL TESTS

SAMPLE ID: LNM 4455, LINCOLN LOT 3018513/78308

Sample ID	Original Area	Reduced Area	Reduction in Area %	Yield Strength PSI	Tensile Strength PSI	Elongation (2.0" Gage Length)		Modules of Elasticity
	Sq. Inches	Sq. Inches				in.	%	
LNM4455	0.1932	0.0866	55.2	65200	95200	0.76	38.0	23.4

Round, reduced section tensiles

Yield taken at .2% offset

Tested in accordance with ASTM A 370-03a

Identification of tested specimens provided by the client.


 Karl Schmitz, Director
 Materials Testing

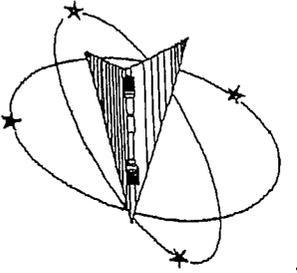
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Certificate No. 0397-01
 Certificate No. 0397-02

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October 18, 2005

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 P.O. Box 388
 Westmoreland Drive
 Youngstown, Pa. 15696-0388 U.S.A.
 Telephone: 724-537-3131 Fax: 724-537-3151
 Website: www.wmttr.com
 WMTTR is a technical leader in the material testing industry.



Section 1 of 1
 WMT&R Report No. 5-35979
 Requisition No. 4972

MetalTek International
 The Cammallet Division
 8600 Commercial Blvd.
 I-55 Industrial Park
 Pevely, MO 63070-1528

Attention: Jim Galaske

Subject: All processes, performed upon the material as received, were conducted at WMT&R, Inc. in accordance with the WMT&R Quality Assurance Manual, Rev. 9, dated 4/1/2000.
 The following tests were performed on this order: TENSILE

TENSILE RESULTS: ASTM E21-03a

SOAK TIME: 5 Minutes

SPEED OF TESTING: 0.0030 in./in./min., 0.0500 in./min./in.

MATERIAL: METALTEK CF8MMNMMOD

Specimen ID	Testlog Number	Temp. °F	UTS ksi	0.2% YS ksi	Elong %	RA %	Modulus Msi	Ult. Load		0.2% YLD.		Orig. Dia. (in.)	Final Dia. (in.)	4D Orig		4D Final		Orig. Area (sq. in.)	Machine Number	ALLUR
								lbf	lbf	lbf	lbf			GL (in.)	GL (in.)	GL (in.)	GL (in.)			
3018513/78308	C54936	-320	184.9	123.7	33	33	32.8	18470	18470	12350	12350	0.3566	0.2926	1.40	1.40	1.86	0.09987403	M9	R	

DISPOSITION: Report
 ALLUR: A=ACCEPTABLE, U=UNACCEPTABLE, R=REPORT

[Signature]
 Roy E. Starnait Wojton
 Technical Services Manager

October 18, 2005

10-18-05

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14:29 OCT 18, 2005



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8600 Commercial Blvd.
Pevely, MO 63070

October 5, 2005
Lab No. 05P-3096
P.O. No. 21324
Page 1 of 1

Attention: Chuck Ruud

REPORT OF CHARPY IMPACT TEST

MATERIAL (SAMPLE ID): WELD PLATE- 3018513 / 78308
SPECIFICATION: ASTM A 370-03a
SPECIMEN TYPE: "A" Vee Notch
SPECIMEN SIZE: 10 mm x 10 mm
TEMPERATURE OF TEST: -320°F
REQUIREMENTS: minimum 35 ft / lbs.

BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
3018513/78308-1	48	0.033	50
3018513/78308-2	65	0.045	50
3018513/78308-3	48	0.033	50
Average	54	0.037	50

Identification of tested specimen provided by client.


Karl Schmitz, Director
Materials Testing

KS/tlv



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