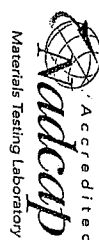
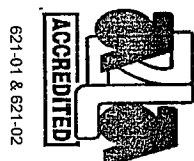


**Westmoreland Mechanical Testing & Research, Inc.**  
P.O. Box 388  
Westmoreland Drive  
Youngstown, Pa. 15696-0388 U.S.A.  
Telephone: 724-537-3131 Fax: 724-537-3151  
Website: [www.wmtt.com](http://www.wmtt.com)  
WMTT is a technical leader in the material testing industry.



December 29, 2005

## CERTIFICATION

MetaTek International  
The Carondelet Division  
8600 Commercial Blvd.  
1-55 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 E21-05

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 CF8MMNMnMOD

Specimen ID	Testlog Number	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	Machine AUIR
C6-Z2	C90230	-320	155.5	98.5	34	34	29.5	15050	9536	0.3510	0.2851	1.40	1.87	0.09676184	M9	A
C6-Z3	C90231	-320	158.3	100.9	37	38	29.8	15290	9748	0.3507	0.2751	1.40	1.92	0.09659650	M9	A

AUIR: 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

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

MATERIAL: Metatek CF8MMNMnMOD

Specimen ID	Testlog Number	Temp. °F	UTS ksi	0.2% YS ksi	Elong %	RA %	Modulus Msi	Codes	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	Machine AUIR
C6-Z1	C90229	-320	175.2	113.5	26	23	30.9	D	16940	10980	0.3509	0.3071	1.40	1.76	0.09670671	M9	U

DISPOSITION: Unacceptable

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

Customer supplied requirements.

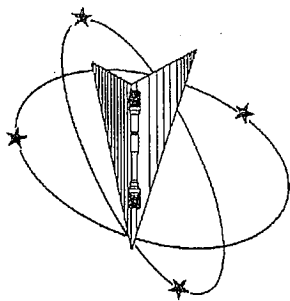
D - Failed outside middle half of gage length.

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Technical Services Manager Roy E. StarkWatt Wojton  
Tensile Supervisor  
December 29, 2005

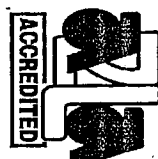
Testing Specialists for Aerospace, Automotive, and Material Testing Fields  
Locations in Youngstown, PA U.S.A. ~ Tel. (724) 537-3131 and  
Ganbury U.K. ~ Tel. +44 (0) 1295 261211

12-28-05



# Westmoreland Mechanical Testing & Research, Inc.

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Youngstown, Pa. 15696-0388 U.S.A.  
Telephone: 724-537-3131 Fax: 724-537-3151  
Website: [www.wmtr.com](http://www.wmtr.com)  
WMTR is a technical leader in the material testing industry.



7 P

January 19, 2006

## CERTIFICATION

Section 1 of 1  
WMTR Report No. 6-20608  
P.O. No. 19386  
Requisition No. 7746

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

Attention: Jim Galaske

Subject: All processes, performed upon the material as received, were conducted at WMTR & R, Inc. in accordance with the WMTR & R 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./min./in.

MATERIAL: 316 S/S

DISPOSITION: Acceptable


Specimen ID	Testlog Number	Temp. °F	UTS ksi	0.2% YS ksi	Elong %	RA %	Modulus Msi	Codes	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	ALUR
C6-Z1	C97600	-320	165.9	99.0	56	54	27.1	---	8273	4938	0.2520	0.1703	1.00	1.56	0.04987592	M9	A
C6-R	C97601	-320	162.4	100.6	41	69	29.6	D	8089	5010	0.2518	0.1413	1.00	1.41	0.04979679	M9	A

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

Customer supplied requirements.

D - Failed outside middle half of gage length.

KNOWINGLY OR WILLFULLY FALSIFYING OR CONCEALING A MATERIAL FACT ON THIS FORM OR MAKING FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR REPRESENTATIONS HEREIN COULD CONSTITUTE A FELONY PUNISHABLE UNDER FEDERAL STATUTES. THIS CERTIFICATE OR REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF WMTR, INC.

  
Roy E. Startman, Wojcik  
Technical Services Manager  
Tensile Supervisor  
January 19, 2006

Testing Specialists for Aerospace, Automotive, and Material Testing Fields  
Locations in Youngstown, PA U.S.A. ~ Tel (724) 537-3131 and  
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**METALTEK INTERNATIONAL**  
 8600 Commercial Blvd.  
 Pevely, MO 63070

December 16, 2005  
 Lab No. 05P-3937  
 P.O. No. 21324  
 Page 1 of 3

**Attention: CHUCK RUUD**

**REPORT OF MECHANICAL TESTS**

*Room Temperature Test*  
*Ch*

**SAMPLE ID: C-6 – 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	0.1893	0.1195	36.9	25.1	47700	87900	0.74	37.0
Z2	0.1886	0.1276	32.4	23.7	43400	82200	0.80	40.0
Z3	0.1909	0.1075	43.7	23.5	42300	80900	0.88	44.0

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/tlv

*[Signature]*  
 Karl Schmitz, Director  
 Materials Testing



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

AN OFFICIAL COPY OF TEST REPORT WILL BE PROVIDED BY THIS LABORATORY ON REQUEST.  
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 Pevely, MO 63070

December 16, 2005  
 Lab No. 05P-3937  
 P.O. No. 21324  
 Page 2 of 3

**Attention: CHUCK RUUD**

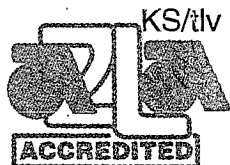
**REPORT OF CHARPY IMPACT TEST**

**MATERIAL (SAMPLE ID):** C-6 – 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
Z1-4	112	0.075	90
Z1-5	110	0.075	90
Z1-6	130	0.095	90
<b>Average</b>	<b>117</b>	<b>0.082</b>	<b>90</b>
BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
Z2-4	160	0.078	90
Z2-5	143	0.095	90
Z2-6	163	0.081	90
<b>Average</b>	<b>155</b>	<b>0.085</b>	<b>90</b>
BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
Z3-4	160	0.070	90
Z3-5	186	0.096	90
Z3-6	208	0.135	99
<b>Average</b>	<b>185</b>	<b>0.100</b>	<b>93</b>

*Identification of tested specimens provided by client.*

  
 Karl Schmitz, Director  
 Materials Testing



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

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December 16, 2005  
 Lab No. 05P-3937  
 P.O. No. 21324  
 Page 3 of 3

**Attention: CHUCK RUUD**

**REPORT OF CHARPY IMPACT TEST**

**MATERIAL (SAMPLE ID):** C6- 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
Z1-1	61	0.036	70
Z1-2	71	0.041	70
Z1-3	83	0.048	80
<b>Average</b>	<b>72</b>	<b>0.042</b>	<b>73</b>
BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
Z2-1	89	0.042	70
Z2-2	75	0.041	70
Z2-3	73	0.046	70
<b>Average</b>	<b>79</b>	<b>0.043</b>	<b>70</b>
BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
Z3-1	97	0.069	80
Z3-2	95	0.050	70
Z3-3	124	0.068	80
<b>Average</b>	<b>105</b>	<b>0.062</b>	<b>77</b>

*Identification of tested specimens provided by client.*

  
 Karl Schmitz, Director  
 Materials Testing



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 Certificate No. 0397-02

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# PRODUCT CONFORMANCE REPORT



Product	LNM 4455	Size(s) mm	1,2
Class.	EN 12072-99: G 20 16 3 Mn 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	Issued by	Function	Date	Cert.No.
Lincoln Smitweld B.V.	P. Nagels	QA Administrator	22/03/2005	3018513/7830
Registered Office	Telephone	Fax:		
Nieuwe Dukenburgseweg 20	31 24 3522911	31 24 3522200		
6534 AD NIJMEGEN				
Post address				
P.O. Box 253				
6500 AG Nijmegen				

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**METALTEK INTERNATIONAL**  
8600 Commercial Blvd.  
Pevely, MO 63070

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
<b>Average</b>	<b>103</b>	<b>0.087</b>	<b>100</b>

*Identification of tested specimen provided by client.*

KS/tlv

*Karl Schmitz*  
Karl Schmitz, Director  
Materials Testing



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

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8600 Commercial Blvd.  
Pevely, MO 63070

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 Sq. Inches	Reduced Area Sq. Inches	Reduction in Area %	Yield Strength PSI	Tensile Strength PSI	Elongation (2.0" Gage Length) in. %		Modules of Elasticity
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

KS/tlv

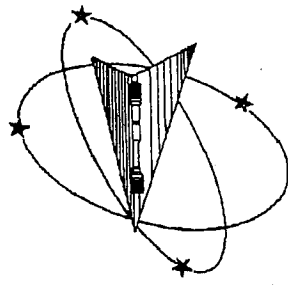


Certificate No. 0397-01  
Certificate No. 0397-02

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October 18, 2005

MetalTek International  
The Carondelet Division  
8600 Commercial Blvd.  
L-55 Industrial Park  
Pewee, 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./in./min.

MATERIAL: METALTEK CF8MMNMNMOD

Specimen ID	Test Log Number	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	Machine
3018513/78308	CS4936	-320	184.9	123.7	33	33	32.8	18470	12350	0.3566	0.2926	1.40	1.86	0.09987403	M9	R

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

DISPOSITION: Report

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.wmttr.com  
WMT&R is a technical leader in the material testing industry.

CERTIFICATION

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



14:29 OCT 18, 2005

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Testing Specialists for Aerospace, Automotive, and Material Testing Fields  
Locations in Youngstown, PA U.S.A. ~ Tel. (724) 537-3131 and  
Baltimore, MD ~ Tel. +44 (0) 1203 261211

Roy E. Starman  
Technical Services Manager Tensile Supervisor

October 18, 2005

10-18-05



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**METALTEK INTERNATIONAL**  
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.*

KS/tlv

  
Karl Schmitz, Director  
Materials Testing



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

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