

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.



Accredited
Nadcap
Materials Testing Laboratory

621-01 & 621-02

March 28, 2006

CERTIFICATION

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

Section 1 of 1
WMTR Report No. 6-25514
P.O. No. 19386
Requisition No. 7590

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 CF8MMNMOD

DISPOSITION: Acceptable

Coil No.	Specimen	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	ALUR
B2	Z1	D29755	-320	168.9	102.0	48	36	24.7	16730	10100	0.3551	0.2840	1.40	2.07	0.09903557	M9	A
B2	Z2	D29756	-320	173.5	105.9	56	46	31.0	17160	10480	0.3549	0.2609	1.40	2.18	0.09892405	M9	A
B2	Z3	D29757	-320	175.1	103.8	47	45	26.4	17320	10273	0.3549	0.2638	1.40	2.06	0.09892405	M9	A

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

Requirements provided by MetaTek International

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Technical Services Manager

March 28, 2006

Testing Specialists for Aerospace, Automotive, and Material Testing Fields
Locations in Youngstown, PA U.S.A. ~ Tel. (724) 537-3131 and
Danbury 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

March 16, 2006
Lab No. 06P-0930
P.O. No. 21324
Page 1 of 7

Attention: Chuck Ruud

REPORT OF CHARPY IMPACT TEST

MATERIAL (SAMPLE ID): B2, Z1
SPECIFICATION: ASTM A 370-03a
SPECIMEN TYPE: "A" Vee Notch
SPECIMEN SIZE: 10 mm x 10 mm
TEMPERATURE OF TEST: 293°K (+°70F)

BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
Z1-1	138	0.079	100
Z1-2	146	0.125	100
Z1-3	144	0.065	90
Average	143	0.090	97



3/16/06

Identification of tested specimen provided by client.

KS/cim


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.
NOT OFFICIAL WITHOUT THE RAISED SEAL OF ST. LOUIS TESTING LABORATORIES, INC.
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 Pevely, MO 63070

March 16, 2006
 Lab No. 06P-0930
 P.O. No. 21324
 Page 2 of 7

Attention: Chuck Ruud

REPORT OF CHARPY IMPACT TEST

MATERIAL (SAMPLE ID): B2, Z1
SPECIFICATION: ASTM A 370-03a
SPECIMEN TYPE: "A" Vee Notch
SPECIMEN SIZE: 10 mm x 10 mm
TEMPERATURE OF TEST: 77°K (-320°F)

BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
Z1-4	70	0.040	80
Z1-5	62	0.038	80
Z1-6	55	0.036	70
Average	62	0.038	77



Identification of tested specimen provided by client.

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March 16, 2006
Lab No. 06P-0930
P.O. No. 21324
Page 3 of 7

Attention: Chuck Ruud

REPORT OF CHARPY IMPACT TEST

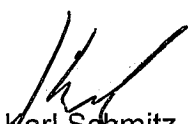
MATERIAL (SAMPLE ID): B2, Z2
SPECIFICATION: ASTM A 370-03a
SPECIMEN TYPE: "A" Vee Notch
SPECIMEN SIZE: 10 mm x 10 mm
TEMPERATURE OF TEST: 293°K (+°70F)

BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
Z2-1	126	0.087	100
Z2-2	124	0.069	100
Z2-3	146	0.092	100
Average	132	0.083	100

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March 16, 2006
Lab No. 06P-0930
P.O. No. 21324
Page 4 of 7

Attention: Chuck Ruud

REPORT OF CHARPY IMPACT TEST

MATERIAL (SAMPLE ID): B2, Z2
SPECIFICATION: ASTM A 370-03a
SPECIMEN TYPE: "A" Vee Notch
SPECIMEN SIZE: 10 mm x 10 mm
TEMPERATURE OF TEST: 77°K (-320°F)

BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
Z2-4	78	0.054	90
Z2-5	60	0.049	90
Z2-6	60	0.032	50
Average	66	0.045	77

Identification of tested specimen provided by client.

2080
3/16/06

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March 16, 2006
Lab No. 06P-0930
P.O. No. 21324
Page 5 of 7

Attention: Chuck Ruud

REPORT OF CHARPY IMPACT TEST

MATERIAL (SAMPLE ID): B2, Z3
SPECIFICATION: ASTM A 370-03a
SPECIMEN TYPE: "A" Vee Notch
SPECIMEN SIZE: 10 mm x 10 mm
TEMPERATURE OF TEST: 293°K (+°70F)

BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
Z3-1	142	0.123	100
Z3-2	134	0.125	100
Z3-3	120	0.096	100
Average	132	0.115	100

Identification of tested specimen provided by client.



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March 16, 2006
Lab No. 06P-0930
P.O. No. 21324
Page 6 of 7

Attention: Chuck Ruud

REPORT OF CHARPY IMPACT TEST

MATERIAL (SAMPLE ID): B2, Z3
SPECIFICATION: ASTM A 370-03a
SPECIMEN TYPE: "A" Vee Notch
SPECIMEN SIZE: 10 mm x 10 mm
TEMPERATURE OF TEST: 77°K (-320°F)

BASE METAL	FOOT LBS.	LATERAL EXPANSION	% SHEAR
Z3-4	60	0.045	60
Z3-5	65	0.030	50
Z3-6	64	0.038	60
Average	63	0.038	57

Identification of tested specimen provided by client.



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Larry Schmitz, Director
Materials Testing



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March 16, 2006
Lab No. 06P-0930
P.O. No. 21324
Page 7 of 7

Attention: Chuck Ruud

REPORT OF MECHANICAL TESTS

SAMPLE ID: B2, Z1; B2, Z2; B2, Z3

Sample ID	Original Area Sq. Inches	Reduced Area Sq. Inches	Elastic Modulus	Reduction in Area %	Yield Strength PSI	Tensile Strength PSI	Elongation (2.0" Gage Length)	
							in.	%
B2, Z1	.1886	.1052	21.9	44.2	52,700	82,200	1.00	50.0
B2, Z2	.1987	.0962	22.0	51.6	56,300	84,000	1.03	51.5
B2, Z3	.2003	.0951	23.7	52.5	67,800	93,600	1.03	51.5

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/clm


Karl Schmitz, Director
Materials Testing



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Certificate No. 0397-02

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PRODUCT CONFORMANCE REPORT



Product
Class.

ENM 4455
EN 12072-99 G 20 16 3 Mm L

Size(s) mm
Lot/Batch
Item No.

1,2
3018513/78308
692129

Customer

EUROWELD
MOORESVILLE N.C. 28117
UNITED STATES

Quantity
Customer ref.
LSW Order No.

105,0 KG
P.O. 05-46
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 Tensile testing

EN10204 2.2

Impact testing

Cond.	Temp. °C	Rp0.2 N/mm2	Rm N/mm2	A5 %	Cond.	Temp.1 °C	Av1 J
AW	RT	407	623	41	AW	-196	67

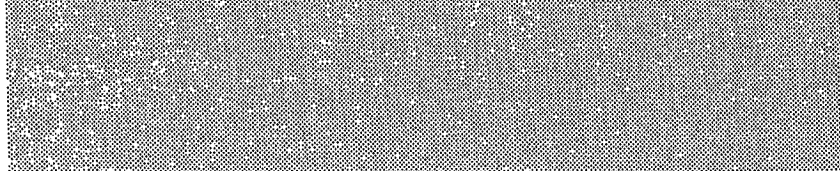
Additional information Other tests

EN10204 2.2



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

Fax:

31 24 3522200

Date

22/03/2005

Cert.No.

3018513/7830

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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
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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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)		Modules of Elasticity
						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

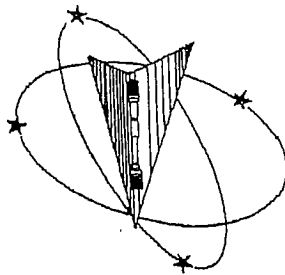
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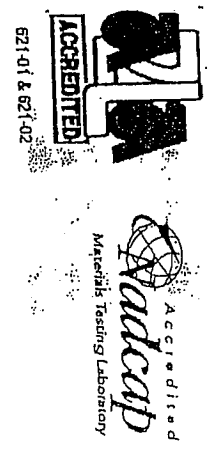




October 18, 2005

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

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



Metalltek International
The Carondelet Division
8600 Commercial Blvd.
1-55 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./in.

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 R
3018513/78308	C54936	-320	184.9	123.7	33	33	32.8	18470	12350	0.3566	0.2926	1.40	1.86	0.09987403	M9	R

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

Roy E. Startmatt Wojton
Technical Services Manager
Tensile Supervisor

October 18, 2005

10-18-05

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.

KS/tlv


Karl Schmitz, Director
Materials Testing



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