



PRINCETON PLASMA PHYSICS LAB

Purchase Order Number:

S005243-F

Part Number:

VVSA PANELS

Part Name:

VVSA FORMED PANELS

MTM Work Order Number:

65678/5.0



Major

Tool & Machine, Inc.

Customer: 8780 - PRINCETON PLASMA PHYSICS LAB
Customer P.O.: S005243-F
Customer Part ID: VVSA PANELS - VVSA FORMED PANELS

Item#	Document Description / Material Description / File Name / Heat Lot
1	CERTIFICATE OF CONFORMANCE

SE120-003 PANEL 1 BLANK - VVSA PANEL SEGMENT FLAT BLANK

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
2	11	10	10	Material Certification: / SE120-003 PANEL 1 BLANK - VVSA PANEL SEGMENT FLAT BLANK - mc108618.TIF / 2650 5 6797
3	31	10	10	Material Certification: / SE120-003 PANEL 1 BLANK - VVSA PANEL SEGMENT FLAT BLANK - mc108623.TIF / 2650 5 6797

SE120-003 PANEL 2 BLANK - VVSA PANEL SEGMENT FLAT BLANK

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
4	12	10	10	Material Certification: / SE120-003 PANEL 2 BLANK - VVSA PANEL SEGMENT FLAT BLANK - mc108601.TIF / 2650 5 6797
5	32	10	10	Material Certification: / SE120-003 PANEL 2 BLANK - VVSA PANEL SEGMENT FLAT BLANK - mc108602.TIF / 2650 5 6797

SE120-003 PANEL 3 BLANK - VVSA PANEL SEGMENT FLAT BLANK

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
6	13	10	10	Material Certification: / SE120-003 PANEL 3 BLANK - VVSA PANEL SEGMENT FLAT BLANK - mc108564.TIF / 2650 5 6797
7	33	10	10	Material Certification: / SE120-003 PANEL 3 BLANK - VVSA PANEL SEGMENT FLAT BLANK - mc108563.TIF / 2650 5 6797

SE120-003 PANEL 4 BLANK - VVSA PANEL SEGMENT FLAT BLANK

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
8	14	10	10	Material Certification: / SE120-003 PANEL 4 BLANK - VVSA PANEL SEGMENT FLAT BLANK - mc108560.TIF / 2650 5 6804
9	34	10	10	Material Certification: / SE120-003 PANEL 4 BLANK - VVSA PANEL SEGMENT FLAT BLANK - mc108559.TIF / 2650 5 6804

SE120-003 PANEL 5 BLANK - VVSA PANEL SEGMENT FLAT BLANK

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
10	15	10	10	Material Certification: / SE120-003 PANEL 5 BLANK - VVSA PANEL SEGMENT FLAT BLANK - mc108556.TIF / 2650 5 6797
11	35	10	10	Material Certification: / SE120-003 PANEL 5 BLANK - VVSA PANEL SEGMENT FLAT BLANK - mc108579.TIF / 2650 5 6804

SE120-003 PANEL 6 BLANK - VVSA PANEL SEGMENT FLAT BLANK

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
12	16	10	10	Material Certification: / SE120-003 PANEL 6 BLANK - VVSA PANEL SEGMENT FLAT BLANK - mc108872.TIF / 2650 5 6804
13	36	10	10	Material Certification: / SE120-003 PANEL 6 BLANK - VVSA PANEL SEGMENT FLAT BLANK - mc108873.TIF / 2650 5 6804

SE120-003 PANEL 7 BLANK - VVSA PANEL SEGMENT FLAT BLANK

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
14	17	10	10	Material Certification: / SE120-003 PANEL 7 BLANK - VVSA PANEL SEGMENT FLAT BLANK - MC108526.TIF / 2650 5 6797
15	37	10	10	Material Certification: / SE120-003 PANEL 7 BLANK - VVSA PANEL SEGMENT FLAT BLANK - MC108525.TIF / 2650 5 6797

SE120-003 PANEL 8 BLANK - VVSA PANEL SEGMENT FLAT BLANK

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
16	18	10	10	Material Certification: / SE120-003 PANEL 8 BLANK - VVSA PANEL SEGMENT FLAT BLANK - mc108598.TIF / 2650 5 6804
17	38	10	10	Material Certification: / SE120-003 PANEL 8 BLANK - VVSA PANEL SEGMENT FLAT BLANK - mc108597.TIF / 2650 5 6804

Customer: 8780 - PRINCETON PLASMA PHYSICS LAB
Customer P.O.: S005243-F
Customer Part ID: VVSA PANELS - VVSA FORMED PANELS

SE120-003 PANEL 9 BLANK - VVSA PANEL SEGMENT FLAT BLANK

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
18	19	10	10	Material Certification: TRACE ID: 119908 / SE120-003 PANEL 9 BLANK - VVSA PANEL SEGMENT FLAT BLANK - MC107667.TIF / 2650 5 6804
19	39	10	10	Material Certification: / SE120-003 PANEL 9 BLANK - VVSA PANEL SEGMENT FLAT BLANK - mc108866.TIF / 2650 5 6804

SE120-003 PANEL 10 BLANK - VVSA PANEL SEGMENT FLAT BLANK

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
20	20	10	10	Material Certification: / SE120-003 PANEL 10 BLANK - VVSA PANEL SEGMENT FLAT BLANK - MC108530.TIF / 2650 5 6804
21	40	10	10	Material Certification: / SE120-003 PANEL 10 BLANK - VVSA PANEL SEGMENT FLAT BLANK - MC108529.TIF / 2650 5 6804

SE120-003-1-1 - PANEL SEGMENT #1 Qty: 1

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
22	1	30		Furnace charts: FURNACE CHART - mc110109.tif
23	1	30		Certification: H/T CERTIFICATE - Same as Item #22
24	21	30		Furnace charts: FURNACE CHART - mc110110.tif
25	21	30		Certification: H/T CERTIFICATE - Same as Item #24

SE120-003-1-2 - PANEL SEGMENT #2 Qty: 1

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
26	2	30		Certification: H/T CERTIFICATE - mc110115.tif
27	2	30		Furnace charts: FURNACE CHART - Same as Item #26
28	22	30		Furnace charts: FURNACE CHART - mc110116.tif
29	22	30		Certification: H/T CERTIFICATE - Same as Item #28

SE120-003-1-3 - PANEL SEGMENT #3 Qty: 1

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
30	3	30		Furnace charts: FURNACE CHART - mc110858.tif
31	3	30		Certification: H/T CERTIFICATE - Same as Item #30
32	23	30		Furnace charts: FURNACE CHART - Same as Item #30
33	23	30		Certification: H/T CERTIFICATE - Same as Item #30

SE120-003-1-4 - PANEL SEGMENT #4 Qty: 1

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
34	4	30		Certification: H/T CERTIFICATE - MC111763.TIF
35	4	30		Furnace charts: FURNACE CHART - Same as Item #34
36	24	30		Furnace charts: FURNACE CHART - Same as Item #34
37	24	30		Certification: H/T CERTIFICATE - Same as Item #34

SE120-003-1-5 - PANEL SEGMENT #5 Qty: 1

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
38	5	70		Furnace charts: FURNACE CHART - MC112125.TIF
39	5	70		Certification: H/T CERTIFICATE - Same as Item #38
40	25	30		Furnace charts: FURNACE CHART - mc109435.tif

Customer: 8780 - PRINCETON PLASMA PHYSICS LAB
Customer P.O.: S005243-F
Customer Part ID: VVSA PANELS - VVSA FORMED PANELS

41 25 30 Certification: H/T CERTIFICATE - Same as Item #40

SE120-003-1-6 - PANEL SEGMENT #6 Qty: 1

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
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42	6	30		Furnace charts: FURNACE CHART - mc110534.tif
43	6	30		Certification: H/T CERTIFICATE - Same as Item #42
44	26	30		Furnace charts: FURNACE CHART - Same as Item #42
45	26	30		Certification: H/T CERTIFICATE - Same as Item #42

SE120-003-1-7 - PANEL SEGMENT #7 Qty: 1

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
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46	7	30		Furnace charts: FURNACE CHART - MC110560.TIF
47	7	30		Certification: H/T CERTIFICATE - Same as Item #46
48	27	30		Furnace charts: FURNACE CHART - Same as Item #46
49	27	30		Certification: H/T CERTIFICATE - Same as Item #46

SE120-003-1-8 - PANEL SEGMENT #8 Qty: 1

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
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50	8	30		Furnace charts: FURNACE CHART - mc110540.tif
51	8	30		Certification: H/T CERTIFICATE - Same as Item #50
52	28	30		Furnace charts: FURNACE CHART - Same as Item #50
53	28	30		Certification: H/T CERTIFICATE - Same as Item #50

SE120-003-1-9 - PANEL SEGMENT #9 Qty: 1

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
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54	9	30		Furnace charts: FURNACE CHART - mc110856.tif
55	9	30		Certification: H/T CERTIFICATE - Same as Item #54
56	29	30		Furnace charts: FURNACE CHART - Same as Item #54
57	29	30		Certification: H/T CERTIFICATE - Same as Item #54

SE120-003-1-10 - PANEL SEGMENT #10 Qty: 1

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
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58	10	30		Furnace charts: FURNACE CHART - MC110562.TIF
59	10	30		Certification: H/T CERTIFICATE - Same as Item #58
60	30	30		Furnace charts: FURNACE CHART - Same as Item #58
61	30	30		Certification: H/T CERTIFICATE - Same as Item #58

WELD WIRE

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
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62	0	10	10	Material Certification: / INCONEL625_062_GTAW - WELD WIRE/GTAW, .062 DIA - MC094944.TIF / AB8051
63	0	10	20	Material Certification: TRACE ID: 95568 / INCONEL625_093_GTAW - WELD WIRE/GTAW, .093 DIA - MC095629.TIF / CB7996
64	0	10	20	Material Certification: / INCONEL625_093_GTAW - WELD WIRE/GTAW, .093 DIA - MC095872.TIF / CB7996



TO: PRINCETON PLASMA PHYSICS LAB

DATE: 09/30/2005

ATTENTION: Receiving Department

Seller certifies that:

Part Number: **VVSA PANELS**

Purchase Order: **S005243-F**

Part Name: **VVSA FORMED PANELS**

Workorder: **65678/5.0**

Part Serial Number:

Quantity: **20**

1. These materials and/or parts were produced in conformance with all contractually applicable Government and/or Customer specifications referred in, or furnished with, the above Purchase Order.
2. The materials and/or parts furnished under the above Purchase Order were produced:
 - [] From materials furnished by Customer for the production of such parts.
 - [X] From materials for which the seller has available for examination chemical and/or physical test reports or other evidence of conformance to applicable specifications.
3. All processes required in the production of these part and/or materials are listed below and were performed by a facility or personnel approved or certified by the Seller and the customer when such approval or certification is required by contract.

Certifications are on file at this plant.

Other Requirements:

Signature: *Corky Lonaker*

Title: *QUALITY INSPECTOR*

Date: *9-30-05*

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435100004-0	Date Entered Date De Commande Bestelldatum 03/06/05	Customer Reference Reference Client Kundenbestelldaten P05-00965	Report No. Rapport No Zeugnis Nr 20050527081	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
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HAYNES
International

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Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.375 x 0/0 x 0/0 SE120-003-PANEL 1 REV:0A HAYNES(R) 625 ALLOY PLATE Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantie Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expeditee Liefermenge 1 PC
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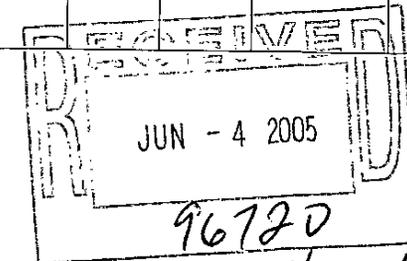
Heat Number Numero De Coulee Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Ch+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 5 6797	0.29		0.031	3.47	0.2854	22.14	0.067	4.3835	0.2697	8.56	60.27	0.007	0.002	0.19	0.2943			BUTT END *03
2650 5 6797	3.4713	<0.05																BUTT END *03

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/27/2005

Amanda Aguirre

JUN 04 2005



CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

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Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.						Tensile Test at Elevated Temperature • Essai De Traction A Hte. Temp. Warm Zugversuch						Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch							
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch	Stress Constraite Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung	% RA		
133000 PSI		78500 PSI	40 %		(1)(A)	Temp:							Temp:						

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

Amanda Aguirre

5/27/2005

(1) 2742656803

JUN 04 2005



CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIÉ • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435100004-0	Date Entered Date De Commande Bestelldatum 03/06/05	Customer Reference Reference Client Kundenbestelldaten P05-00965	Report No. Rapport No Zeugnis Nr 20050527081	Pages of Pages Page de Pages Anzahl der Seiten 3 Of 4
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Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.375 x 0/0 x 0/0 SE120-003 PANEL 1 REV:0A HAYNES(R) 625 ALLOY PLATE Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Spécification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantité Commandée Bestellmenge 1 PC	Quantity Shipped Quantité Expédiée Liefermenge 1 PC
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Annealed Hardness Dureté Recuit Geglüht Härte	Aged Hardness Dureté Vieilli Gealtert Haerte	Grain Size Grosseur De Grain Korngrösse						IGA	Uniformity	Corrosion Rate		Oxidation Rate	Charpy Impact Test				Creep Rupture			
		Grain Size	Predominant Grain Size	Recry. Grain	Unrecry. Grain %	ALA	P&W Figure Number			Attack Depth	Corrosion		Test Method	Toughness Avg	Toughness 1	Toughness 2	Toughness 3	Test Essai Versuch	Stress Contrainte Spannung	Hours Heures Stunden
90 HRB	(1)(A)	5								MPY										

Certified By • Certifié Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/27/2005

(1) 2742656803

Amanda Aguirre

JUN 04 2005



CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435100004-0	Date Entered Date De Commande Bestelldatum 03/06/05	Customer Reference Reference Client Kundenbestelldaten P05-00965	Report No. Rapport No Zeugnis Nr 20050527081	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4
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Sold To • Client • Bestellanschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Product Description • Description Produit • Material Beschreibung 0.375 x 0/0 x 0/0 SE120-003-PANEL 1 REV:0A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100	
Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; PS-489, E		Quantity Ordered Quantite Commandee Bestellmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC		

All tests and inspections have been performed and results meet specification requirements.
THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
Material conforms to PS-483 Revision H as applicable.
Mill Orders Used: 2742656803 (1 PC)
(A) 1750 °F to 1950 °F

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre 5/27/2005
Certification Technician

Amanda Aguirre

JUN 04 2005



mct108618.tif (1620x2122x2 tiff) [4]

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435100005-0	Date Entered Date De Commande Bestelldatum 03/06/05	Customer Reference Reference Client Kundenbestelldaten P05-00965	Report No. Rapport No Zeugnis Nr 20050527080	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
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Specification • Specification • Spezifikation ASME-SB-443 Chemistry Only, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantie Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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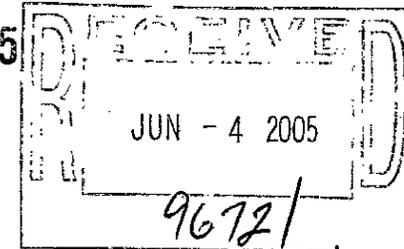
Heat Number Numero De Coulee Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																		
	Al	B	C	Cr+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W		
2650 5 6797	0.29		0.031	3.47	0.2854	22.14	0.067	4.3835	0.2697	8.56	60.27	0.007	0.002	0.19	0.2943				BUTT END *03
	Cr(Nb)	Ta	Zr	Bi	Se	La	Cu+Ni	Pb	Mg	Y	Ag	N	Ca	Al+Ti	Ni+Co	Ni+Mo			BUTT END *03
2650 5 6797	3.4713	<0.05																	BUTT END *03

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/27/2005

Amanda Aguirre

JUN 04 2005



Line 5 B.7

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435100005-0	Date Entered Date De Commande Bestelldatum 03/06/05	Customer Reference Reference Client Kundenbestelldaten P05-00965	Report No. Rapport No Zeugnis Nr 20050527080	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4
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Specification • Specification • Spezifikation ASME-SB-443 Chemistry Only, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantie Commandee Bestellmenge 1 PC	Quantity Shipped Quantitie Expediee Liefermenge 1 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.					Tensile Test at Elevated Temperature • Essai De Traction A Hte. Temp. Warm Zugversuch						Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch				
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strieckgraeze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strieckgraeze	% Elong In % Allong EN % Dehnung	%RA	Test Essai Versuch	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strieckgraeze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strieckgraeze	% Elong In % Allong EN % Dehnung	%RA	Test Essai Versuch	Stress Constraainte Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung	% RA
133000 PSI		78500 PSI	40 %	(1)(A)	Temp:										

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

Amanda Aguirre

5/27/2005

(1) 2742656803

JUN 04 2005



CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435100005-0	Date Entered Date De Commande Bestelldatum 03/06/05	Customer Reference Reference Client Kundenbestelldaten P05-00965	Report No. Rapport No Zeugnis Nr 20050527080	Pages of Pages Page de Pages Anzahl der Seiten 3 Of 4
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Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinaire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.375 x 0/0 x 0/0 SE120-003 PANEL 1 REV:0A HAYNES(R) 625 ALLOY PLATE Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation ASME-SB-443 Chemistry Only, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantie Commandee Bestelmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Annealed Hardness Durette Recuit Geglueht Haerte	Aged Hardness Durette Vieilli Gealtert Haerte	Grain Size Grosueur De Grain Korngrösse						IGA	Uniformity	Corrosion Rate		Oxidation Rate	Charpy Impact Test				Creep Rupture				
		Grain Size	Predominant Grain Size	Recry. Grain	Unrecry. Grain %	ALA	P&W Figure Number			Attack Depth	Corrosion		Test Method	Toughness Avg	Toughness 1	Toughness 2	Toughness 3	Test Essai Versuch	Stress Constrainte Spannung	Hours Heures Stunden	% Elong in % Allong EN
90 HRB	(I)(A)	5								MPY											

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/27/2005

(1) 2742656803

Amanda Aguirre

JUN 04 2005



CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435100005-0	Date Entered Date De Commande Bestelldatum 03/06/05	Customer Reference Reference Client Kundenbestelldaten P05-00965	Report No. Rapport No Zeugnis Nr 20050527080	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4
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Specification • Specification • Spezifikation ASME-SB-443 Chemistry Only, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellemenge 1 PC	Quantity Shipped Quantitie Expediee Liefermenge 1 PC
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All tests and inspections have been performed and results meet specification requirements.
THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
Material conforms to PS-483 Revision H as applicable.
Mill Orders Used: 2742656803 (1 PC)
(A) 1750 °F to 1950 °F

Certified By • Certifie Par • Bescheinigt Durch: **Amanda Aguirre**
Certification Technician

5/27/2005

Amanda Aguirre

JUN 04 2005



CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435388004-0	Date Entered Date De Commande Bestelldatum 03/06/05	Customer Reference Reference Client Kundenbestelldaten P05-00967	Report No. Rapport No Zeugnis Nr 20050527077	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
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Product Description • Description Produit • Material Beschreibung
0.375 x 0/0 x 0/0
SE120-003-PANEL 2 REV:0A
HAYNES(R) 625 ALLOY PLATE -
Nadcap CERTIFICATE NUMBER 0089
S400E,S1000E, EN 10204 3.1.B, AS9100

Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellmenge 1 PC	Quantity Shipped Quantite Expeditee Liefermenge 1 PC
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Heat Number Numero De Coulee Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Cb+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 5 6797	0.29		0.031	3.47	0.2854	22.14	0.067	4.3835	0.2697	8.56	60.27	0.007	0.002	0.19	0.2943			BUTT END *03
	CH(Nb)	Ta	Zr	Bi	Se	La	C+N+Cb	Pb	Mg	Y	Ag	N	Ca	Al+Ti	Ni+Co	Ni+Mo		BUTT END *03
2650 5 6797	3.4713	<0.05																BUTT END *03

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/27/2005

Amanda Aguirre

96716
JUN 04 2005
MTM 05

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CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435388004-0	Date Entered Date De Commande Bestelldatum 03/06/05	Customer Reference Reference Client Kundenbestelldaten P05-00967	Report No. Rapport No Zeugnis Nr 20050527077	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4
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---	---	--

Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantie Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.						Tensile Test at Elevated Temperature • Essai De Traction A Hte.Temp. Warm Zugversuch						Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch					
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch Temp:	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch Temp:	Stress Constraite Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung	% RA
133000 PSI		78500 PSI	40 %		(1)(A)												

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician
Amanda Aguirre

5/27/2005 (1) 2742656803

JUN 04 2005
MTM 09 ~~96716~~

mct108601.tif (1612x2094x2 tiff) [2]

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435388004-0	Date Entered Date De Commande Bestelldatum 03/06/05	Customer Reference Reference Client Kundenbestelldaten P05-00967	Report No. Rapport No Zeugnis Nr 20050527077	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4
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Product Description • Description Produit • Material Beschreibung 0.375 x 0/0 x 0/0 SE120-003-PANEL 2 REV:0A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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All tests and inspections have been performed and results meet specification requirements.
THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
Material conforms to PS-483 Revision H as applicable.
Mill Orders Used: 2742656803 (1 PC)
(A) 1750 °F to 1950 °F

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician 5/27/2005

Amanda Aguirre

JUN 04 2005

GC 716



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Invoice No No. De Facture Rechnungs Nr 435388005-0	Date Entered Date De Commande Bestelldatum 03/06/05	Customer Reference Reference Client Kundenbestelldaten P05-00967	Report No. Rapport No Zeugnis Nr 20050527084	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
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Specification • Specification • Spezifikation ASME-SB-443 Chemistry Only, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantie Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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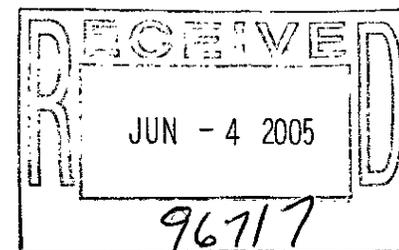
Heat Number Numero De Coulce Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																		
	Al	B	C	Cb+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W		
2650 5 6797	0.29		0.031	3.47	0.2854	22.14	0.067	4.3835	0.2697	8.56	60.27	0.007	0.002	0.19	0.2943				BUTT END *03
2650 5 6797	3.4713	<0.05																	BUTT END *03

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Certification Technician

5/27/2005

Amanda Aguirre

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Invoice No No. De Facture Rechnungs Nr 435388005-0	Date Entered Date De Commande Bestelldatum 03/06/05	Customer Reference Reference Client Kundenbestelldaten P05-00967	Report No. Rapport No Zeugnis Nr 20050527084	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4
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Specification • Specification • Spezifikation ASME-SB-443 Chemistry Only, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.				
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strieckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strieckgrenze	% Elong In % Allong EN % Dehnung	%RA
133000 PSI		78500 PSI	40 %	(1)(A)

Tensile Test at Elevated Temperature • Essai De Traction A Hte.Temp. Warm Zugversuch					
Test Essai Versuch Temp:	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strieckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strieckgrenze	% Elong In % Allong EN % Dehnung	%RA

Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch				
Test Essai Versuch Temp:	Stress Contrainte Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung	% RA

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Certification Technician

Amanda Aguirre

5/27/2005

(1) 2742656803

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CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435388005-0	Date Entered Date De Commande Bestelldatum 03/06/05	Customer Reference Reference Client Kundenbestelldaten P05-00967	Report No. Rapport No Zeugnis Nr 20050527084	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4
Sold To • Client • Bestellanschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Ship To • Destinataire • Bestelmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Product Description • Description Produit • Material Beschreibung 0.375 x 0/0 x 0/0 SE120-003 PANEL 2 REV:0A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
Specification • Specification • Spezifikation ASME-SB-443 Chemistry Only, 04, UNS# N06625, Gr. 1; PS-489, E		Quantity Ordered Quantite Commandee Bestelmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC	

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Material conforms to PS-483 Revision H as applicable.
Mill Orders Used: 2742656803 (1 PC)
(A) 1750 °F to 1950 °F

Certified By • Certifie Par • Bescheinigt Durch: **Amanda Aguirre**
Certification Technician

5/27/2005

Amanda Aguirre

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CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435389004-0	Date Entered Date De Commande Bestelldatum 03/06/05	Customer Reference Reference Client Kundenbestelldaten P05-00994	Report No. Rapport No Zeugnis Nr 20050527122	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
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Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantie Commandee Bestellmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Heat Number Numero De Codee Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Cb+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 5 6797	0.29		0.031	3.47	0.2854	22.14	0.067	4.3835	0.2697	8.56	60.27	0.007	0.002	0.19	0.2943			BUTT END *03
2650 5 6797	3.4713	<0.05																BUTT END *03

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Certification Technician
Amanda Aguirre
5/27/2005

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Invoice No No. De Facture Rechnungs Nr 435389004-0	Date Entered Date De Commande Bestelldatum 03/06/05	Customer Reference Reference Client Kundenbestelldaten P05-00994	Report No. Rapport No Zeugnis Nr 20050527122	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4
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Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestelmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.					Tensile Test at Elevated Temperature • Essai De Traction A Hte.Temp. Warm Zugversuch						Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch						
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strieckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strieckgrenze	% Elong In % Allong EN % Dehnung	%RA	Temp.	Test Essai Versuch	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strieckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strieckgrenze	% Elong In % Allong EN % Dehnung	%RA	Temp.	Test Essai Versuch	Stress Constraint Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung	% RA
133000 PSI		78500 PSI	40 %	(1)(A)													

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

Amanda Aguirre

5/27/2005

(1) 2742656803

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Invoice No No. De Facture Rechnungs Nr 435389004-0	Date Entered Date De Commande Bestelldatum 03/06/05	Customer Reference Reference Client Kundenbestelldaten P05-00994	Report No. Rapport No Zeugnis Nr 20050527122	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4
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Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; PS-489, E		Quantity Ordered Quantite Commandee Bestelmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC	

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Mill Orders Used: 2742656803 (1 PC)
(A) 1750 °F to 1950 °F

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Certification Technician

5/27/2005

Amanda Aguirre

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Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.375 x 0/0 x 0/0 SE120-003 PANEL 3 REV:0A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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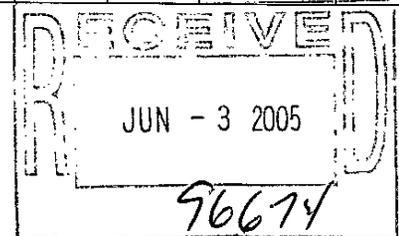
Specification • Specification • Spezifikation ASME-SB-443 Chemistry Only, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestelmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Heat Number Numero De Coulee Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Cr-Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 5 6797	0.29		0.031	3.47	0.2854	22.14	0.067	4.3835	0.2697	8.56	60.27	0.007	0.002	0.19	0.2943			BUTT END *03
2650 5 6797	3.4713	<0.05																BUTT END *03

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/27/2005

Amanda Aguirre



Line 5 Bcl

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mct108563.tif (1686x2118x2.tif)

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CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435389005-0	Date Entered Date De Commande Bestelldatum 03/06/05	Customer Reference Reference Client Kundenbestelldaten P05-00994	Report No. Rapport No Zeugnis Nr 20050527121	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4
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Specification • Specification • Spezifikation ASME-SB-443 Chemistry Only, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestelmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.						Tensile Test at Elevated Temperature • Essai De Traction A Hte.Temp. Warm Zugversuch						Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch							
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch Temp:	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch Temp:	Stress Constrainte Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung	% RA		
133000 PSI		78500 PSI	40 %		(1)(A)														

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

Amanda Aguirre

5/27/2005 (1) 2742656803

mct108563.tif (1686x2100x2 tiff) [2]

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CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435389005-0	Date Entered Date De Commande Bestelldatum 03/06/05	Customer Reference Reference Client Kundenbestelldaten P05-00994	Report No. Rapport No Zeugnis Nr 20050527121	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4
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Specification • Specification • Spezifikation ASME-SB-443 Chemistry Only, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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All tests and inspections have been performed and results meet specification requirements.
THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
Material conforms to PS-483 Revision H as applicable.
Mill Orders Used: 2742656803 (1 PC)
(A) 1750 °F to 1950 °F

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician 5/27/2005

Amanda Aguirre

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mcl108563.tif (1686x2127x2 tiff) [4]

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435391007-0	Date Entered Date De Commande Bestelldatum 03/07/05	Customer Reference Reference Client Kundenbestelldaten P05-00996	Report No. Rapport No Zeugnis Nr 20050527123	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
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Specification • Specification • Spezifikation ASTM-B-443, 00e1, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantie Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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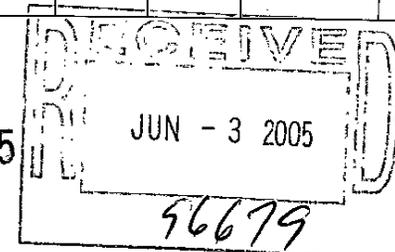
Heat Number Numero De Coulee Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Ch+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 5 6804	0.22		0.021	3.48	0.1738	21.73	0.0707	3.9177	0.249	8.79	60.34	0.007	<0.002	0.14	0.2695			BUTT END *02
	CHNb	Ta	Zr	Bi	Se	La	CHNCo	Pb	Mg	Y	Ag	N	Ca	Al+Ti	Ni+Co	Ni+Mo		BUTT END *02
2650 5 6804	3.4769	<0.05																

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/27/2005

Amanda Aguirre

JUN 03 2005



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Specification • Specification • Spezifikation ASTM-B-443, 00c1, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.				
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strieckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strieckgrenze	% Elong In % Allong EN % Dehnung	%RA
131000 PSI		61000 PSI	48 %	(1)(A)

Tensile Test at Elevated Temperature • Essai De Traction A Hte.Temp. Warm Zugversuch					
Test Essai Versuch Temp:	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strieckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strieckgrenze	% Elong In % Allong EN % Dehnung	%RA

Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch				
Test Essai Versuch Temp:	Stress Constraunte Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung	% RA

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Certification Technician

5/27/2005 (1) 2742656802

Amanda Aguirre



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Invoice No No. De Facture Rechnungs Nr 435391007-0	Date Entered Date De Commande Bestelldatum 03/07/05	Customer Reference Reference Client Kundenbestelldaten P05-00996	Report No. Rapport No Zeugnis Nr 20050527123	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4
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Product Description • Description Produit • Material Beschreibung
**0.375 x 0/0 x 0/0
SE120-003 PANEL 4 REV:0A
HAYNES(R) 625 ALLOY PLATE -
Nadcap CERTIFICATE NUMBER 0089
S400E,S1000E, EN 10204 3.1.B, AS9100**

Specification • Specification • Spezifikation ASTM-B-443, 00e1, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantie Commandee Bestelmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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All tests and inspections have been performed and results meet specification requirements.
THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
Material conforms to PS-483 Revision H as applicable.
Mill Orders Used: 2742656802 (1 PC)
(A) 1750 °F to 1950 °F

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Certification Technician 5/27/2005

Amanda Aguirre



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CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435391006-0	Date Entered Date De Commande Bestelldatum 03/07/05	Customer Reference Reference Client Kundenbestelldaten P05-00996	Report No. Rapport No Zeugnis Nr 20050527124	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
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Specification • Specification • Spezifikation ASTM-B-443, 00e1, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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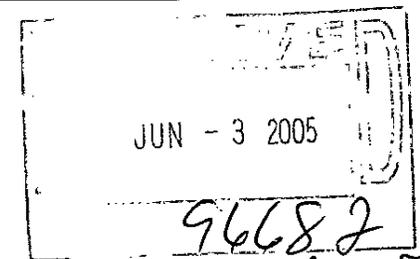
Heat Number Numero De Coulée Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Cb+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 5 6804	0.22		0.021	3.48	0.1738	21.73	0.0707	3.9177	0.249	8.79	60.34	0.007	<0.002	0.14	0.2695			BUTT END *02
	Cr+Nb	Ta	Zr	Bi	Se	La	Cr+Cu	Pb	Mg	Y	Ag	N	Ca	Al+Ti	Ni+Co	Ni+Mo		BUTT END *02
2650 5 6804	3.4769	<0.05																BUTT END *02

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Certification Technician

5/27/2005

Amanda Aguirre

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*Line 5
B-1*

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Invoice No No. De Facture Rechnungs Nr 435391006-0	Date Entered Date De Commande Bestelldatum 03/07/05	Customer Reference Reference Client Kundenbestelldaten P05-00996	Report No. Rapport No Zeugnis Nr 20050527124	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4
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Specification • Specification • Spezifikation ASTM-B-443, 00e1, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.						Tensile Test at Elevated Temperature • Essai De Traction A Hte.Temp. Warm Zugversuch						Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch							
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strieckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strieckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch Temp:	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strieckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strieckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch Temp:	Stress Constraite Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung	% RA		
131000 PSI		61000 PSI	48 %		(1)(A)														

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

Amanda Aguirre

5/27/2005

(1) 2742656802



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CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435391006-0	Date Entered Date De Commande Bestelldatum 03/07/05	Customer Reference Reference Client Kundenbestelldaten P05-00996	Report No. Rapport No Zeugnis Nr 20050527124	Pages of Pages Page de Pages Anzahl der Seiten 3 Of 4
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Product Description • Description Produit • Material Beschreibung
**0.375 x 0/0 x 0/0
SE120-003 PANEL 4 REV:0A
HAYNES(R) 625 ALLOY PLATE -
Nadcap CERTIFICATE NUMBER 0089
S400E,S1000E, EN 10204 3.1.B, AS9100**

Specification • Specification • Spezifikation ASTM-B-443, 00e1, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Annealed Hardness Durete Recuit Gegluht Haerte	Aged Hardness Durete Vieilli Gealtert Haerte	Grain Size Grosueur De Grain Korngroesse						IGA	Uniformity	Corrosion Rate		Oxidation Rate	Charpy Impact Test				Creep Rupture			
		Grain Size	Prodominant Grain Size	Roxy. Grain	Unrecry. Grain %	ALA	P&W Figure Number			Attack Depth	Corrosion		Test Method	Toughness Avg	Toughness 1	Toughness 2	Toughness 3	Test Essai Versuch	Stress Contrainte Spannung	Hours Heures Stunden
99 HRB	(1)(A)	6								MPY										

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

Amanda Aguirre

5/27/2005 (1) 2742656802

ATM 09 JUN 03 2005

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CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435391006-0	Date Entered Date De Commande Bestelldatum 03/07/05	Customer Reference Reference Client Kundenbestelldaten P05-00996	Report No. Rapport No Zeugnis Nr 20050527124	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4
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Specification • Specification • Spezifikation ASTM-B-443, 00e1, UNS# N06625, Gr. 1; PS-489, E		Quantity Ordered Quantite Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC	

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Material conforms to PS-483 Revision H as applicable.
Mill Orders Used: 2742656802 (1 PC)
(A) 1750 °F to 1950 °F

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/27/2005

Amanda Aguirre



JUN 03 2005

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435564004-0	Date Entered Date De Commande Bestelldatum 03/08/05	Customer Reference Reference Client Kundenbestelldaten P05-00997	Report No. Rapport No Zeugnis Nr 20050527117	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
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International

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Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA
---	---

Product Description • Description Produit • Material Beschreibung 0.375 x 0/0 x 0/0 SE120-003-PANEL 5 REV:0A HAYNES(R) 625 ALLOY PLATE Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
--

Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantie Commandee Bestelmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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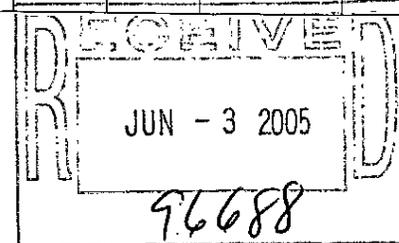
Heat Number Numero De Coulee Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Cb+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 5 6797	0.29		0.031	3.47	0.2854	22.14	0.067	4.3835	0.2697	8.56	60.27	0.007	0.002	0.19	0.2943			BUTT END *03
2650 5 6797	3.4713	<0.05																BUTT END *03

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/27/2005

Amanda Aguirre

JUN 03 2005



CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435564004-0	Date Entered Date De Commande Bestelldatum 03/08/05	Customer Reference Reference Client Kundenbestelldaten P05-00997	Report No. Rapport No Zeugnis Nr 20050527117	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4
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Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestelmenge 1 PC	Quantity Shipped Quantite Expedtee Liefermenge 1 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.						Tensile Test at Elevated Temperature • Essai De Traction A Hte.Temp. Warm Zugversuch						Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch							
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch	Stress Constraente Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung	% RA		
133000 PSI		78500 PSI	40 %		(1)(A)	Temp:							Temp:						

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/27/2005

(1) 2742656803

Amanda Aguirre



JUN 03 2005

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435564004-0	Date Entered Date De Commande Bestelldatum 03/08/05	Customer Reference Reference Client Kundenbestelldaten P05-00997	Report No. Rapport No Zeugnis Nr 20050527117	Pages of Pages Page de Pages Anzahl der Seiten 3 Of 4
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Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Annealed Hardness Durete Recuit Geglueht Haerte	Aged Hardness Durete Vieilli Gealtert Haerte	Grain Size Grosneur De Grain Korngroesse						IGA	Uniformity	Corrosion Rate		Oxidation Rate	Charpy Impact Test				Creep Rupture			
		Grain Size	Predomnant Grain Size	Recry. Grain	Unrecry. Grain %	ALA	P&W Figure Number			Attack Depth	Corrosion		Test Method	Toughness Avg	Toughness 1	Toughness 2	Toughness 3	Test Essai Versuch	Stress Constraite Spannung	Hours Heures Stunden
90 HRB	(1)(A)	5								MPY										

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/27/2005 (1) 2742656803

Amanda Aguirre



JUN 03 2005

mcl08556.tif (1620x2117x2 tiff) [3]

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435564004-0	Date Entered Date De Commande Bestelldatum 03/08/05	Customer Reference Reference Client Kundenbestelldaten P05-00997	Report No. Rapport No Zeugnis Nr 20050527117	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4
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Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; PS-489, E		Quantity Ordered Quantie Commandee Bestellemenge 1 PC	Quantity Shipped Quantie Expediee Liefermenge 1 PC		

All tests and inspections have been performed and results meet specification requirements.
THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
Material conforms to PS-483 Revision H as applicable.
Mill Orders Used: 2742656803 (1 PC)
(A) 1750 °F to 1950 °F

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician 5/27/2005

Amanda Aguirre



JUN 03 2005

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Invoice No No. De Facture Rechnungs Nr 435564007-0	Date Entered Date De Commande Bestelldatum 03/08/05	Customer Reference Reference Client Kundenbestelldaten P05-00997	Report No. Rapport No. Zeugnis Nr 20050527086	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
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Specification • Specification • Spezifikation ASTM-B-443, 00e1, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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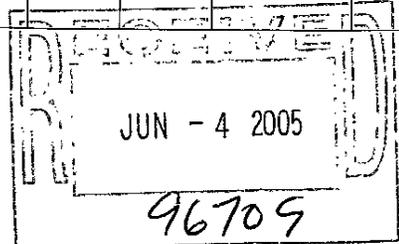
Heat Number Numero De Coatee Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Cb+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 5 6804	0.22		0.021	3.48	0.1738	21.73	0.0707	3.9177	0.249	8.79	60.34	0.007	<0.002	0.14	0.2695			BUTT END *02
	^(CNb)	Ta	Zr	Bi	Se	La	^(CNcb)	Pb	Mg	Y	Ag	N	Ca	Al+Ti	Ni+Co	Ni+Mo		BUTT END *02
2650 5 6804	3.4769	<0.05																

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/27/2005

Amanda Aguirre

JUN 04 2005



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CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435564007-0	Date Entered Date De Commande Bestelldatum 03/08/05	Customer Reference Reference Client Kundenbestelldaten P05-00997	Report No. Rapport No Zeugnis Nr 20050527086	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4
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Specification • Specification • Spezifikation ASTM-B-443, 00e1, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantie Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.						Tensile Test at Elevated Temperature • Essai De Traction A Hte.Temp. Warm Zugversuch						Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch					
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strieckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strieckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strieckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strieckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch	Stress Constraime Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung	% RA
131000 PSI		61000 PSI	48 %		(1)(A)	Temp:							Temp:				

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

Amanda Aguirre

5/27/2005

(1) 2742656802

JUN 04 2005
MTM 09

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435564007-0	Date Entered Date De Commande Bestelldatum 03/08/05	Customer Reference Reference Client Kundenbestelldaten P05-00997	Report No. Rapport No Zeugnis Nr 20050527086	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4	<p>HAYNES International</p> <p>CUSTOMER COPY Haynes International 1020 West Park Avenue PO Box 9013 Kokomo, Indiana, 46902</p>
Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Ship To • Destinaire • Bestelmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Product Description • Description Produit • Material Beschreibung 0.375 x 0/0 x 0/0 SE120-003 PANEL 5 REV:0A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100	
Specification • Specification • Spezifikation ASTM-B-443, 00e1, UNS# N06625, Gr. 1; PS-489, E			Quantity Ordered Quantite Commandee Bestelmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC	

All tests and inspections have been performed and results meet specification requirements.
 THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
 Material conforms to PS-483 Revision H as applicable.
 Mill Orders Used: 2742656802 (1 PC)
 (A) 1750 °F to 1950 °F

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
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5/27/2005

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Invoice No No. De Facture Rechnungs Nr 435568004-0	Date Entered Date De Commande Bestelldatum 03/08/05	Customer Reference Reference Client Kundenbestelldaten P05-00999	Report No. Rapport No Zeugnis Nr 20050527067	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4																															
Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA			Ship To • Destinaaire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA			Product Description • Description Produit • Material Beschreibung 0.375 x 0/0 x 0/0 SE120-003-PANEL 6 REV:0A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100																													
Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; PS-489, E					Quantity Ordered Quantie Commandee Bestelmenge 1 PC					Quantity Shipped Quantite Expediee Liefermenge 1 PC																									
Heat Number Numero De Coatee Charge Nr 2650 5 6804												Chemical Analysis • Analyse Chimique • Chemische Analyse																							
Al		B		C		Cb+Ta (Nb+Ta)		Co		Cr		Cu		Fc		Mn		Mo		Ni		P		S		Si		Ti		V		W			
0.25				0.027		3.47		0.1686		21.71		0.0711		4.0356		0.2493		8.77		60.45		0.007		0.002		0.14		0.2738						BUTT END *03	
C+Nb		Ta		Zr		Bi		Se		La		C+N+Cu		Pb		Mg		Y		Ag		N		Ca		Al+Ti		Ni+Co		Ni+Mo					
2650 5 6804		3.4664		<0.05																														BUTT END *03	

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
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5/27/2005

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JUN 10 2005

MTM 016 JUN 10 2005

96901 *WJ*

Line 4

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Sold To • Client • Bestellanschrift
MAJOR TOOL AND MACHINE INC
1458 E 19TH ST
INDIANAPOLIS
IN 46218 USA

Ship To • Destinataire • Bestelmenge
MAJOR TOOL AND MACHINE INC
1458 E 19TH ST
INDIANAPOLIS
IN 46218 USA

Product Description • Description Produit • Material Beschreibung
0.375 x 0/0 x 0/0
SE120-003-PANEL 6 REV:0A
HAYNES(R) 625 ALLOY PLATE -
Nadcap CERTIFICATE NUMBER 0089
S400E,S1000E, EN 10204 3.1.B, AS9100

Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestelmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.				
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA
132000 PSI		68500 PSI	52 %	(1)(A)

Tensile Test at Elevated Temperature • Essai De Traction A Hte. Temp. Warm Zugversuch					
Test Essai Versuch Temp.	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA

Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch				
Test Essai Versuch Temp.	Stress Contrainte Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung	% RA

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/27/2005 (1) 2742657101

Amanda Aguirre

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Sold To • Client • Bestellauschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestelmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA
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Product Description • Description Produit • Material Beschreibung
0.375 x 0/0 x 0/0
SE120-003-PANEL 6 REV:0A
HAYNES(R) 625 ALLOY PLATE
Nadcap CERTIFICATE NUMBER 0089
S400E,S1000E, EN 10204 3.1.B, AS9100

Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestelmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Annealed Hardness Durete Recuit Geglueht Haerte	Aged Hardness Durete Vieilli Gealtert Haerte	Grain Size Grosseur De Grain Korngrösse						IGA	Uniformity	Corrosion Rate		Oxidation Rate	Charpy Impact Test				Creep Rupture			
		Grain Size	Predominant Grain Size	Recry. Grain	Unrecry. Grain %	ALA	P&W Figure Number			Attack Depth	Corrosion		Test Method	Toughness Avg	Toughness 1	Toughness 2	Toughness 3	Test Essai Versuch	Stress Contrainte Spannung	Hours Heures Stunden
98 HRB	(1)(A)	6								MPY										

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/27/2005

(1) 2742657101

Amanda Aguirre

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Invoice No No. De Facture Rechnungs Nr 435568004-0	Date Entered Date De Commande Bestelldatum 03/08/05	Customer Reference Reference Client Kundenbestelldaten P05-00999	Report No. Rapport No Zeugnis Nr 20050527067	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4
Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Ship To • Destinaire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Product Description • Description Produit • Material Beschreibung 0.375 x 0/0 x 0/0 SE120-003-PANEL 6 REV:0A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; PS-489, E			Quantity Ordered Quantie Commandee Bestellmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC

All tests and inspections have been performed and results meet specification requirements.
THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
Material conforms to PS-483 Revision H as applicable.
Mill Orders Used: 2742657101 (1 PC)
(A) 1750 °F to 1950 °F

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/27/2005

Amanda Aguirre



JUN 10 2005

mc108872.tif (1684x2178x2 tiff) [4]

JUN 1 2005



Magnetic Permeability Test Witness

Haynes observed Mr. Edwards of Major Tool test the orders listed below for Magnetic Permeability on April 19, 2005, using a Severn Engineering Permeability Indicator #6763, identified as gauge J-1165 in Major Tool's calibration system. The gauge was in calibration and was due for recalibration on December 27, 2005. All items tested below were <1.01 magnetic permeability.

Heats Tested

- 2650-4-6771
- 2650-5-6797
- 2650-5-6804

Purchase Order Numbers

- P05-00965 – Panel 1
- P05-00966 – Panel 10
- P05-00967 – Panel 2
- P05-00994 – Panel 3
- P05-00996 – Panel 4
- P05-00997 – Panel 5
- P05-00999 – Panel 6
- P05-01001 – Panel 7
- P05-01002 – Panel 8
- P05-01003 – Panel 9
- P05-01004 – 25" dia discs

Best Regards,

Marlin C. Losch III

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Invoice No No. De Facture Rechnungs Nr 435568005-0	Date Entered Date De Commande Bestelldatum 03/08/05	Customer Reference Reference Client Kundenbestelldaten P05-00999	Report No. Rapport No Zeugnis Nr 20050527066	Pages of Pages Page de Pages Anzahl der Seiten 1 OF 4
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Sold To • Client • Bestellanschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinaire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.375 x 0/0 x 0/0 SE120-003 PANEL 6 REV:0A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
---	---	--

Specification • Specification • Spezifikation ASME-SB-443 Chemistry Only, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantie Commandee Bestellmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
--	---	--

Heat Number Numero De Coulee Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	CH+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 5 6804	0.25		0.027	3.47	0.1686	21.71	0.0711	4.0356	0.2493	8.77	60.45	0.007	0.002	0.14	0.2738			BUTT END *03
2650 5 6804	3.4664	<0.05																BUTT END *03

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/27/2005

Amanda Aguirre

MTM 016 JUN 10 2005

JUN 10 2005

96902 DT

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Sold To • Client • Bestellanschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.375 x 0/0 x 0/0 SE120-003 PANEL 6 REV:0A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation ASME-SB-443 Chemistry Only, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellemenge 1 PC	Quantity Shipped Quantitie Expeditee Liefermenge 1 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.						Tensile Test at Elevated Temperature • Essai De Traction A Hte.Temp. Warm Zugversuch						Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch							
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch	Stress Contrainte Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung	% RA		
132000 PSI		68500 PSI	52 %		(1)(A)	Temp:							Temp:						

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/27/2005 (1) 2742657101

Amanda Aguirre

MTM 016 JUN 10 2005

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Invoice No No. De Facture Rechnungs Nr 435568005-0	Date Entered Date De Commande Bestelldatum 03/08/05	Customer Reference Reference Client Kundenbestelldaten P05-00999	Report No. Rapport No Zeugnis Nr 20050527066	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4	<p align="center"><u>HAYNES</u> <u>International</u></p> <p align="right">Haynes International 1020 West Park Avenue PO Box 9013 Kokomo, Indiana, 46902</p>
Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Product Description • Description Produit • Material Beschreibung 0.375 x 0/0 x 0/0 SE120-003 PANEL 6 REV:0A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100	
Specification • Specification • Spezifikation ASME-SB-443 Chemistry Only, 04, UNS# N06625, Gr. 1; PS-489, E			Quantity Ordered Quantite Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC	

All tests and inspections have been performed and results meet specification requirements.
 THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
 Material conforms to PS-483 Revision H as applicable.
 Mill Orders Used: 2742657101 (1 PC)
 (A) 1750 °F to 1950 °F

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 Certification Technician

5/27/2005

Amanda Aguirre

JUN 10 2005



mc108873.tif (1556x2136x2 tiff) [4]



JUN 10 2005

Magnetic Permeability Test Witness

Haynes observed Mr. Edwards of Major Tool test the orders listed below for Magnetic Permeability on April 19, 2005, using a Severn Engineering Permeability Indicator #6763, identified as gauge J-1165 in Major Tool's calibration system. The gauge was in calibration and was due for recalibration on December 27, 2005. All items tested below were <1.01 magnetic permeability.

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Purchase Order Numbers

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P05-00996 – Panel 4
P05-00997 – Panel 5
P05-00999 – Panel 6
P05-01001 – Panel 7
P05-01002 – Panel 8
P05-01003 – Panel 9
P05-01004 – 25” dia discs

Best Regards,

Marlin C. Losch III

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435571004-0	Date Entered Date De Commande Bestelldatum 03/08/05	Customer Reference Reference Client Kundenbestelldaten P05-01001	Report No. Rapport No Zeugnis Nr 20050527071	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
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Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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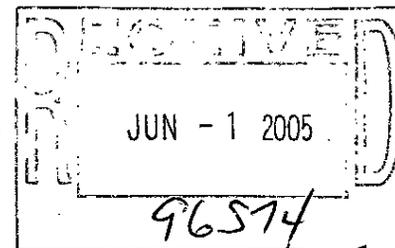
Heat Number Numero De Charge Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Cb+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 5 6797	0.29		0.031	3.47	0.2854	22.14	0.067	4.3835	0.2697	8.56	60.27	0.007	0.002	0.19	0.2943			BUTT END *03
2650 5 6797	Cb(Nb)	Ta	Zr	Bi	Se	La	Cs+N-Ce	Pb	Mg	Y	Ag	N	Ca	Al+Ti	Ni+Co	Ni+Mo		BUTT END *03
	3.4713	<0.05																

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Certification Technician

5/27/2005

Amanda Aguirre

JUN 01 2005



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Invoice No No. De Facture Rechnungs Nr 435571004-0	Date Entered Date De Commande Bestelldatum 03/08/05	Customer Reference Reference Client Kundenbestelldaten P05-01001	Report No. Rapport No Zeugnis Nr 20050527071	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4
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Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.						Tensile Test at Elevated Temperature • Essai De Traction A Hte.Temp. Warm Zugversuch						Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch							
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strieckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strieckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strieckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strieckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch	Stress Constraite Spannung	Hours Hours Stunden	% Elong In % Allong EN % Dehnung	% RA		
133000 PSI		78500 PSI	40 %		(1)(A)														

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Certification Technician

Amanda Aguirre

5/27/2005 (1) 2742656803



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Invoice No No. De Facture Rechnungs Nr 435571004-0	Date Entered Date De Commande Bestelldatum 03/08/05	Customer Reference Reference Client Kundenbestelldaten P05-01001	Report No. Rapport No Zeugnis Nr 20050527071	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4
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Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; PS-489, E		Quantity Ordered Quantite Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC		

All tests and inspections have been performed and results meet specification requirements.
THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
Material conforms to PS-483 Revision H as applicable.
Mill Orders Used: 2742656803 (1 PC)
(A) 1750 °F to 1950 °F

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Certification Technician

Amanda Aguirre



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- 7a

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Invoice No No. De Facture Rechnungs Nr 435571005-0	Date Entered Date De Commande Bestelldatum 03/08/05	Customer Reference Reference Client Kundenbestelldaten P05-01001	Report No. Rapport No Zeugnis Nr 20050527070	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
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Specification • Specification • Spezifikation ASME-SB-443 Chemistry Only, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC

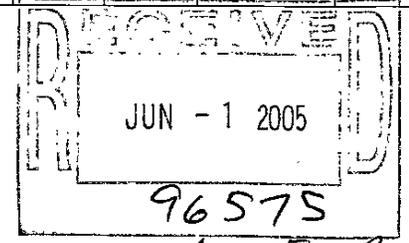
Heat Number Numero De Coulee Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Cb+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 5 6797	0.29		0.031	3.47	0.2854	22.14	0.067	4.3835	0.2697	8.56	60.27	0.007	0.002	0.19	0.2943			BUTT END *03
2650 5 6797	3.4713	<0.05																BUTT END *03

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5/27/2005

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Specification • Specification • Spezifikation ASME-SB-443 Chemistry Only, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.					Tensile Test at Elevated Temperature • Essai De Traction A Hte.Temp. Warm Zugversuch						Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch				
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strieckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strieckgrenze	% Elong In % Allong EN % Dehnung	%RA	Test Essai Versuch Temp:	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strieckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strieckgrenze	% Elong In % Allong EN % Dehnung	%RA	Test Essai Versuch Temp:	Stress Constrainte Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung	% RA
133000 PSI		78500 PSI	40 %	(1)(A)											

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/27/2005

(1) 2742656803

Amanda Aguirre



JUN 01 2005

mct108525.tif (1612x2160x2 tiff) [2]

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435571005-0	Date Entered Date De Commande Bestelldatum 03/08/05	Customer Reference Reference Client Kundenbestelldaten P05-01001	Report No. Rapport No Zeugnis Nr 20050527070	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4	<p align="center">HAYNES International</p> <p align="right">CUSTOMER COPY Haynes International 1020 West Park Avenue PO Box 9013 Kokomo, Indiana, 46902</p>
Sold To • Client • Bestellanschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Ship To • Destinaire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Product Description • Description Produit • Material Beschreibung 0.375 x 0/0 x 0/0 SE120-003 PANEL 7 REV:0A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100	
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<p>All tests and inspections have been performed and results meet specification requirements. THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION. Material conforms to PS-483 Revision H as applicable. Mill Orders Used: 2742656803 (1 PC) (A) 1750 °F to 1950 °F</p>					

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/27/2005

Amanda Aguirre



JUN 01 2005

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435572007-0	Date Entered Date De Commande Bestelldatum 03/08/05	Customer Reference Reference Client Kundenbestelldaten POS-01002	Report No. Rapport No Zeugnis Nr 20050527129	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
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1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.375 x 0/0 x 0/0 SE120-003 PANEL 8 REV:0A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation ASTM-B-443, 00e1, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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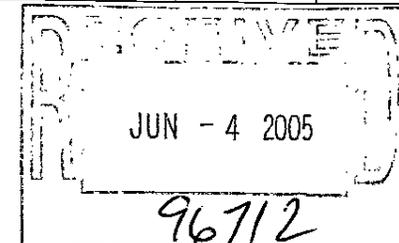
Heat Number Numero De Coulee Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Ch+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 5 6804	0.22		0.021	3.48	0.1738	21.73	0.0707	3.9177	0.249	8.79	60.34	0.007	<0.002	0.14	0.2695			BUTT END *02
2650 5 6804	3.4769	<0.05																BUTT END *02

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/27/2005

Amanda Aguirre

JUN 04 2005



Line 4 *B.J.*

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435572007-0	Date Entered Date De Commande Bestelldatum 03/08/05	Customer Reference Reference Client Kundenbestelldaten P05-01002	Report No. Rapport No Zeugnis Nr 20050527129	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4
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Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.375 x 0/0 x 0/0 SE120-003 PANEL 8 REV:0A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation ASTM-B-443, 00e1, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.				
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA
131000 PSI		61000 PSI	48 %	(1)(A)

Tensile Test at Elevated Temperature • Essai De Traction A Hte.Temp. Warm Zugversuch					
Test Essai Versuch	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA
Temp:					

Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch				
Test Essai Versuch	Stress Constrainte Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung	% RA
Temp:				

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

Amanda Aguirre

5/27/2005 (1) 2742656802



JUN 04 2005

mcl108598.tif (1620x2141x2 tiff) [2]

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435572007-0	Date Entered Date De Commande Bestelldatum 03/08/05	Customer Reference Reference Client Kundenbestelldaten P05-01002	Report No. Rapport No Zeugnis Nr 20050527129	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4
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Specification • Specification • Spezifikation ASTM-B-443, 00e1, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestelmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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All tests and inspections have been performed and results meet specification requirements.
THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
Material conforms to PS-483 Revision H as applicable.
Mill Orders Used: 2742656802 (1 PC)
(A) 1750 °F to 1950 °F

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/27/2005

Amanda Aguirre

JUN 04 2005
MTM 09

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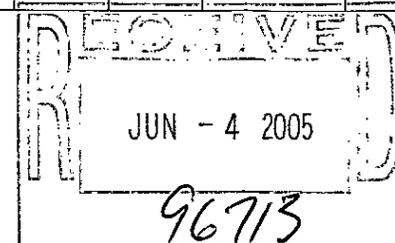
Heat Number Numero De Coulee Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Cr+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 5 6804	0.22		0.021	3.48	0.1738	21.73	0.0707	3.9177	0.249	8.79	60.34	0.007	<0.002	0.14	0.2695			BUTT END *02
2650 5 6804	3.4769	<0.05																BUTT END *02

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/27/2005

Amanda Aguirre

JUN 04 2005



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CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

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Product Description • Description Produit • Material Beschreibung
**0.375 x 0/0 x 0/0
SE120-003 PANEL 8 REV:0A
HAYNES(R) 625 ALLOY PLATE -
Nadcap CERTIFICATE NUMBER 0089
S400E,S1000E, EN 10204 3.1.B, AS9100**

Specification • Specification • Spezifikation ASTM-B-443, 00e1, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantie Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.				
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strieckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strieckgrenze	% Elong In % Allong EN % Dehnung	%RA %RA
131000 PSI		61000 PSI	48 %	(1)(A)

Tensile Test at Elevated Temperature • Essai De Traction A Hte. Temp. Warm Zugversuch					
Test Essai Versuch	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strieckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strieckgrenze	% Elong In % Allong EN % Dehnung	%RA %RA
Temp:					

Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch				
Test Essai Versuch	Stress Contrainte Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung	% RA % RA
Temp:				

Certified By • Certifie Par • Bescheinigt Durch: **Amanda Aguirre**
Certification Technician
Amanda Aguirre

5/27/2005 (1) 2742656802

JUN 04 2005



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CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

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Specification • Specification • Spezifikation ASTM-B-443, 00e1, UNS# N06625, Gr. 1; PS-489, E			Quantity Ordered Quantite Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC	

All tests and inspections have been performed and results meet specification requirements.
THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
Material conforms to PS-483 Revision H as applicable.
Mill Orders Used: 2742656802 (1 PC)
(A) 1750 °F to 1950 °F

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/27/2005

Amanda Aguirre

JUN 04 2005



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Invoice No No. De Facture Rechnungs Nr 435574003-0	Date Entered Date De Commande Bestelldatum 03/08/05	Customer Reference Reference Client Kundenbestelldaten P05-01003	Report No. Rapport No Zeugnis Nr 20050419079	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
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Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA
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Product Description • Description Produit • Material Beschreibung
0.375 x 0/0 x 0/0
SE120-003 PANEL 9 REV:0A
HAYNES(R) 625 ALLOY PLATE -
Nadcap CERTIFICATE NUMBER 0089
S400E,S1000E, EN 10204 3.1.B, AS9100

Specification • Specification • Spezifikation ASTM-B-443, 00e1, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantité Commandée Bestelmenge 1 PC	Quantity Shipped Quantité Expédiée Liefermenge 1 PC
--	---	--

Heat Number Numero De Coque Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																BUTT END *03		
	Al	B	C	Cb+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V		W	
2650 5 6804	0.25		0.027	3.47	0.1686	21.71	0.0711	4.0356	0.2493	8.77	60.45	0.007	0.002	0.14	0.2738				BUTT END *03
	As	Ta	Zr	Bi	Se	La	Cb+Ta	Pb	Mg	Y	Ag	N	Ca	Al+Ti	Ni+Co	Ni+Mo			BUTT END *03
2650 5 6804	3.4664	<0.05																	BUTT END *03

Certified By • Certifié Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician
Amanda Aguirre
4/19/2005

4/27/05
MTM 09
APR 27 2005
95644
Line 4 B.3.

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CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435574003-0	Date Entered Date De Commande Bestelldatum 03/08/05	Customer Reference Reference Client Kundenbestelldaten P05-01003	Report No. Rapport No Zeugnis Nr 20050419079	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4
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Specification • Specification • Spezifikation ASTM-B-443, 00e1, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestelmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.						Tensile Test at Elevated Temperature • Essai De Traction A Hte.Temp. Warm Zugversuch						Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch					
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strieckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strieckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch Temp:	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strieckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strieckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch Temp:	Stress Constraite Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung	% RA
132000 PSI		68500 PSI	52 %		(1)(A)												

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

4/19/2005

(1) 2742657101

Amanda Aguirre

4/27/05



CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

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Product Description • Description Produit • Material Beschreibung
**0.375 x 0/0 x 0/0
SE120-003 PANEL 9 REV:0A
HAYNES(R) 625 ALLOY PLATE -
Nadcap CERTIFICATE NUMBER 0089
S400E,S1000E, EN 10204 3.1.B, AS9100**

Specification • Specification • Spezifikation ASTM-B-443, 00e1, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Annealed Hardness Durette Recuit Gegluht Haerte	Aged Hardness Durette Vieilli Gealtert Haerte	Grain Size Grosseur De Grain Korngroesse					IGA	Uniformity	Corrosion Rate		Oxidation Rate	Charpy Impact Test				Creep Rupture					
		Grain Size	Predominant Grain Size	Recry. Grain	Unrecry. Grain %	ALA			P&W Figure Number	Attack Depth		Corrosion	Test Method	Toughness Avg	Toughness 1	Toughness 2	Toughness 3	Test Essai Versuch	Stress Contrainte Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung
98 HRB	(1)(A)	6							MPY												

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

4/19/2005

(1) 2742657101

Amanda Aguirre

4/27/05


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MC107667.TIF (1475x2124x2 bit) [3]

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Specification • Specification • Spezifikation ASTM-B-443, 00e1, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantie Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Material conforms to PS-483 Revision H as applicable.
Mill Orders Used: 2742657101 (1 PC)
(A) 1750 °F to 1950 °F

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

4/19/2005

Amanda Aguirre

4/27/05
MTM
09

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Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Ship To • Destinataire • Bestelmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA	Product Description • Description Produit • Material Beschreibung 0.375 x 0/0 x 0/0 SE120-003 PANEL 9 REV:0A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100
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Specification • Specification • Spezifikation ASME-SB-443 Chemistry Only, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestelmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
--	---	--

Heat Number Numero De Coulee Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Cb+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 5 6804	0.25		0.027	3.47	0.1686	21.71	0.0711	4.0356	0.2493	8.77	60.45	0.007	0.002	0.14	0.2738			BUTT END *03
2650 5 6804	(Sb)	Ta	Zr	Bi	Se	La	C+N+O ₂	Pb	Mg	Y	Ag	N	Ca	Al+Ti	Ni+Co	Ni+Mo		BUTT END *03
	3.4664	<0.05																

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician
Amanda Aguirre
5/27/2005

JUN 9 2005
96874 DA

MTM 016 JUN 09 2005

Line 5

THE DATA CONTAINED HEREIN WAS OBTAINED FROM SAMPLES THAT ARE REPRESENTATIVE OF THE PRODUCTS IN THE SUBJECT SHIPMENT. THIS MATERIAL MEETS THE REQUIREMENTS OF THE LISTED SPECIFICATIONS, MODIFIED BY ANY EXCEPTIONS OR PURCHASE ORDER REQUIREMENTS. THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47. THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF HAYNES INTERNATIONAL, INC. SPECIFICATION MARKING REQUIREMENTS MAY BE WAIVED ON ORDERS REQUIRING MULTIPLE MATERIAL SPECIFICATIONS.

mc108866.tif (1548x2116x2 tiff)

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435574005-0	Date Entered Date De Commande Bestelldatum 03/08/05	Customer Reference Reference Client Kundenbestelldaten P05-01003	Report No. Rapport No Zeugnis Nr 20050527058	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4
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Specification • Specification • Spezifikation ASME-SB-443 Chemistry Only, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.						Tensile Test at Elevated Temperature • Essai De Traction A Hte.Temp. Warm Zugversuch						Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch					
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strieckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strieckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Strieckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Strieckgrenze	% Elong In % Allong EN % Dehnung	%RA		Test Essai Versuch	Stress Constraunte Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung	% RA
132000 PSI		68500 PSI	52 %		(1)(A)	Temp:							Temp:				

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/27/2005 (1) 2742657101

Amanda Aguirre

MTM 016 JUN 09 2005

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mc108866.tif (1588x2141x2 tiff) [2]

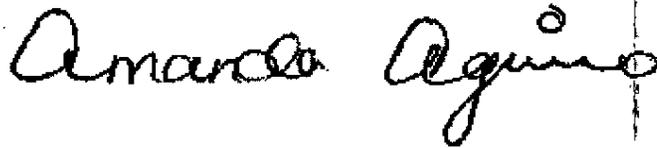
CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

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Invoice No No. De Facture Rechnungs Nr 435574005-0	Date Entered Date De Commande Bestelldatum 03/08/05	Customer Reference Reference Client Kundenbestelldaten P05-01003	Report No. Rapport No Zeugnis Nr 20050527058	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4	HAYNES International	Haynes International 1020 West Park Avenue PO Box 9013 Kokomo, Indiana, 46902
Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Ship To • Destinataire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Product Description • Description Produit • Material Beschreibung 0.375 x 0/0 x 0/0 SE120-003 PANEL 9 REV:0A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100		
Specification • Specification • Spezifikation ASME-SB-443 Chemistry Only, 04, UNS# N06625, Gr. 1; PS-489, E			Quantity Ordered Quantite Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC		

All tests and inspections have been performed and results meet specification requirements.
THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
Material conforms to PS-483 Revision H as applicable.
Mill Orders Used: 2742657101 (1 PC)
(A) 1750 °F to 1950 °F

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Certification Technician



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MTM
016 JUN 09 2005

JUN 09 2005



Magnetic Permeability Test Witness

Haynes observed Mr. Edwards of Major Tool test the orders listed below for Magnetic Permeability on April 19, 2005, using a Severn Engineering Permeability Indicator #6763, identified as gauge J-1165 in Major Tool's calibration system. The gauge was in calibration and was due for recalibration on December 27, 2005. All items tested below were <1.01 magnetic permeability.

Heats Tested

2650-4-6771
2650-5-6797
2650-5-6804

Purchase Order Numbers

P05-00965 – Panel 1
P05-00966 – Panel 10
P05-00967 – Panel 2
P05-00994 – Panel 3
P05-00996 – Panel 4
P05-00997 – Panel 5
P05-00999 – Panel 6
P05-01001 – Panel 7
P05-01002 – Panel 8
P05-01003 – Panel 9
P05-01004 – 25" dia discs

Best Regards,

Marlin C. Losch III

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Invoice No No. De Facture Rechnungs Nr 435387005-0	Date Entered Date De Commande Bestelldatum 03/06/05	Customer Reference Reference Client Kundenbestelldaten P05-00966	Report No. Rapport No Zeugnis Nr 20050527074	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
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Specification • Specification • Spezifikation ASME-SB-443 Chemistry Only, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Heat Number Numero De Coalee Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Ch+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 5 6804	0.25		0.027	3.47	0.1686	21.71	0.0711	4.0356	0.2493	8.77	60.45	0.007	0.002	0.14	0.2738			BUTT END *03
2650 5 6804	^{CN+Ni} 3.4664	^{Ta} <0.05	^{Zr}	^{Bi}	^{Se}	^{La}	^{C+N+Cu}	^{Pb}	^{Mg}	^Y	^{Ag}	^N	^{Ca}	^{Al+Ti}	^{Ni+Co}	^{Ni+Mo}		BUTT END *03

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Certification Technician
Amanda Aguirre
5/27/2005

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Line 4 B.T.

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Specification • Specification • Spezifikation ASME-SB-443 Chemistry Only, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.					Tensile Test at Elevated Temperature • Essai De Traction A Hte.Temp. Warm Zugversuch						Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch				
Ultimate	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA	Test Essai Versuch	Ultimate	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA	Test Essai Versuch	Stress Constraite Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung	% RA
132000 PSI		68500 PSI	52 %	(1)(A)	Temp:						Temp:				

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Certification Technician

5/27/2005 (1) 2742657101

Amanda Aguirre

JUN 01 2005

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Invoice No No. De Facture Rechnungs Nr 435387005-0	Date Entered Date De Commande Bestelldatum 03/06/05	Customer Reference Reference Client Kundenbestelldaten P05-00966	Report No. Rapport No Zeugnis Nr 20050527074	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4
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Specification • Specification • Spezifikation ASME-SB-443 Chemistry Only, 04, UNS# N06625, Gr. 1; PS-489, E		Quantity Ordered Quantite Commandee Bestelmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC	

All tests and inspections have been performed and results meet specification requirements.
THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
Material conforms to PS-483 Revision H as applicable.
Mill Orders Used: 2742657101 (1 PC)
(A) 1750 °F to 1950 °F

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Invoice No No. De Facture Rechnungs Nr 435387004-0	Date Entered Date De Commande Bestelldatum 03/06/05	Customer Reference Reference Client Kundenbestelldaten P05-00966	Report No. Rapport No Zeugnis Nr 20050527076	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 4
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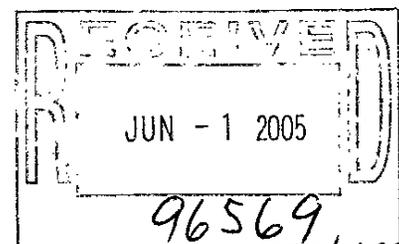
Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestelmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Heat Number Numero De Coutee Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																	
	Al	B	C	Cb+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W	
2650 5 6804	0.25		0.027	3.47	0.1686	21.71	0.0711	4.0356	0.2493	8.77	60.45	0.007	0.002	0.14	0.2738			BUTT END *03
2650 5 6804	^(Sb) 3.4664	^(Sb) <0.05	Zr	Bi	Se	La	^(Sb)	Pb	Mg	Y	Ag	N	Ca	Al+Ti	Ni+Co	Ni+Mo		BUTT END *03

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Certification Technician

5/27/2005

Amanda Aguirre



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Invoice No No. De Facture Rechnungs Nr 435387004-0	Date Entered Date De Commande Bestelldatum 03/06/05	Customer Reference Reference Client Kundenbestelldaten P05-00966	Report No. Rapport No. Zeugnis Nr 20050527076	Pages of Pages Page de Pages Anzahl der Seiten 2 Of 4
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Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestellemenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp.					Tensile Test at Elevated Temperature • Essai De Traction A Hte.Temp. Warm Zugversuch						Stress Rupture Temperature • Essai A Charge De Rupture Zeitstandversuch				
Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA	Test Essai Versuch Temp:	Ultimate Zugfestigkeit	1% Yield Lim. Elast. A 1% 1% Streckgrenze	0.2% Yield Lim. Elast. A 0.2% 0.2% Streckgrenze	% Elong In % Allong EN % Dehnung	%RA	Test Essai Versuch Temp:	Stress Constrainte Spannung	Hours Heures Stunden	% Elong In % Allong EN % Dehnung	% RA
132000 PSI		68500 PSI	52 %	(1)(A)											

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Certification Technician

5/27/2005 (1) 2742657101

Amanda Aguirre

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Invoice No No. De Facture Rechnungs Nr 435387004-0	Date Entered Date De Commande Bestelldatum 03/06/05	Customer Reference Reference Client Kundenbestelldaten P05-00966	Report No. Rapport No Zeugnis Nr 20050527076	Pages of Pages Page de Pages Anzahl der Seiten 3 Of 4
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Product Description • Description Produit • Material Beschreibung 0.375 x 0/0 x 0/0 SE120-003-PANEL 10 REV:0A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100

Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; PS-489, E	Quantity Ordered Quantite Commandee Bestelmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC
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Annealed Hardness Durete Recuit Geglueht Haerte	Aged Hardness Durete Vieilli Gealtert Haerte	Grain Size Grosueur De Grain Korngrösse						IGA	Uniformity	Corrosion Rate		Oxidation Rate	Charpy Impact Test				Creep Rupture			
		Grain Size	Predominant Grain Size	Recry. Grain	Unrecry. Grain %	ALA	P&W Figure Number			Attack Depth	Corrosion		Test Method	Toughness Avg	Toughness 1	Toughness 2	Toughness 3	Test Essai Versuch	Stress Constrainte Spannung	Hours Heures Stunden
98 HRB	(1)(A)	6								MPY										

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Certification Technician

Amanda Aguirre

5/27/2005 (1) 2742657101

THE DATA CONTAINED HEREIN WAS OBTAINED FROM SAMPLES THAT ARE REPRESENTATIVE OF THE PRODUCTS IN THE SUBJECT SHIPMENT. THIS MATERIAL MEETS THE REQUIREMENTS OF THE LISTED SPECIFICATIONS, MODIFIED BY ANY EXCEPTIONS OR PURCHASE ORDER REQUIREMENTS. THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47. THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF HAYNES INTERNATIONAL, INC. SPECIFICATION MARKING REQUIREMENTS MAY BE WAIVED ON ORDERS REQUIRING MULTIPLE MATERIAL SPECIFICATIONS.



JUN 01 2005

mct108529.tif (1678x2114x2 tiff) [3]

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS

Invoice No No. De Facture Rechnungs Nr 435387004-0	Date Entered Date De Commande Bestelldatum 03/06/05	Customer Reference Reference Client Kundenbestelldaten P05-00966	Report No. Rapport No Zeugnis Nr 20050527076	Pages of Pages Page de Pages Anzahl der Seiten 4 Of 4
Sold To • Client • Bestellaranschrift MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		Ship To • Destinaire • Bestellmenge MAJOR TOOL AND MACHINE INC 1458 E 19TH ST INDIANAPOLIS IN 46218 USA		
Specification • Specification • Spezifikation ASME-SB-443, 04, UNS# N06625, Gr. 1; PS-489, E		Quantity Ordered Quantite Commandee Bestelmenge 1 PC	Quantity Shipped Quantite Expediee Liefermenge 1 PC	

**HAYNES
International**

CUSTOMER COPY

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Product Description • Description Produit • Material Beschreibung 0.375 x 0/0 x 0/0 SE120-003-PANEL 10 REV:0A HAYNES(R) 625 ALLOY PLATE - Nadcap CERTIFICATE NUMBER 0089 S400E,S1000E, EN 10204 3.1.B, AS9100

All tests and inspections have been performed and results meet specification requirements.
THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION.
Material conforms to PS-483 Revision H as applicable.
Mill Orders Used: 2742657101 (1 PC)
(A) 1750 °F to 1950 °F

Certified By • Certifie Par • Bescheinigt Durch: Amanda Aguirre
Certification Technician

5/27/2005

Amanda Aguirre



JUN 01 2005

65678



Certificate of Conformance

EXOTIC METAL TREATING INC.

Certificate # 50070

Vendor Code # 107576

6234 E. Hanna Avenue · Indianapolis, Indiana

P.O. # P05-03972 THRU P05-03974

Exotic Metal Treating Inc. hereby certifies that all materials used in the manufacture of parts **CONFORMS** to the material and/or manufacturing specifications indicated in drawings or specifications as called for on purchase order referenced hereon. Test reports are on file with us or with our suppliers for examination and indicate conformance with the applicable requirements. The parts listed below are processed in accordance with the drawings or specifications called for on referenced purchase order that are current on the date on which the order was accepted. Pertinent details of the work performed are on file at this facility under the process heat number listed hereon.

HEAT # 05-1308

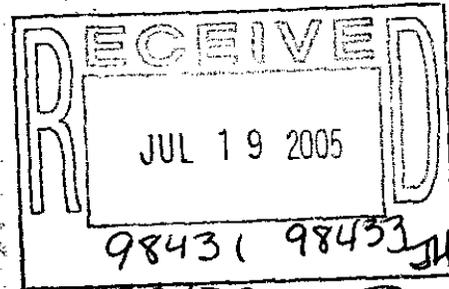
DATE SHIPPED 7-19-05

QUANTITY	DESCRIPTION
3 PCS	#SE120-003-1-1 JOB #65678-1/5, 65678-21/5, 65678-1/6 SEQ #30

MATERIAL: INCO 625

**SOLUTION ANNEALED PER AMS-2774-A
1900°F ± 15°F FOR 45 MINUTES ± 5 MINUTES
& RAPID AIR COOLED.**

JUL 25 2005



Sworn and subscribed to before me...

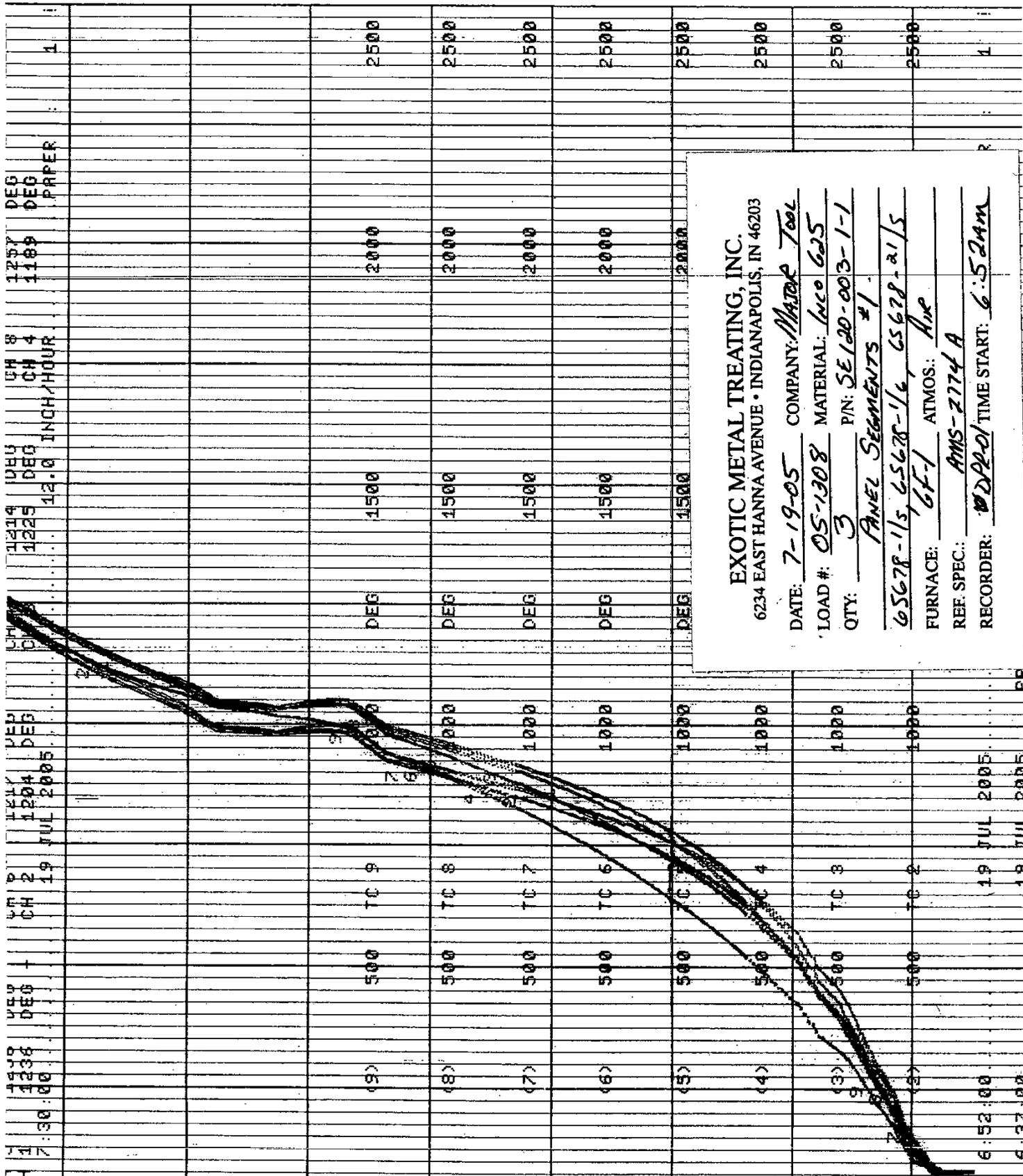
on 7-19-05 [Signature]
Notary Public Morgan County, State of Indiana

My commission expires 9-30-09

[Signature]
(Name)

QA
(Title)

4275 KA



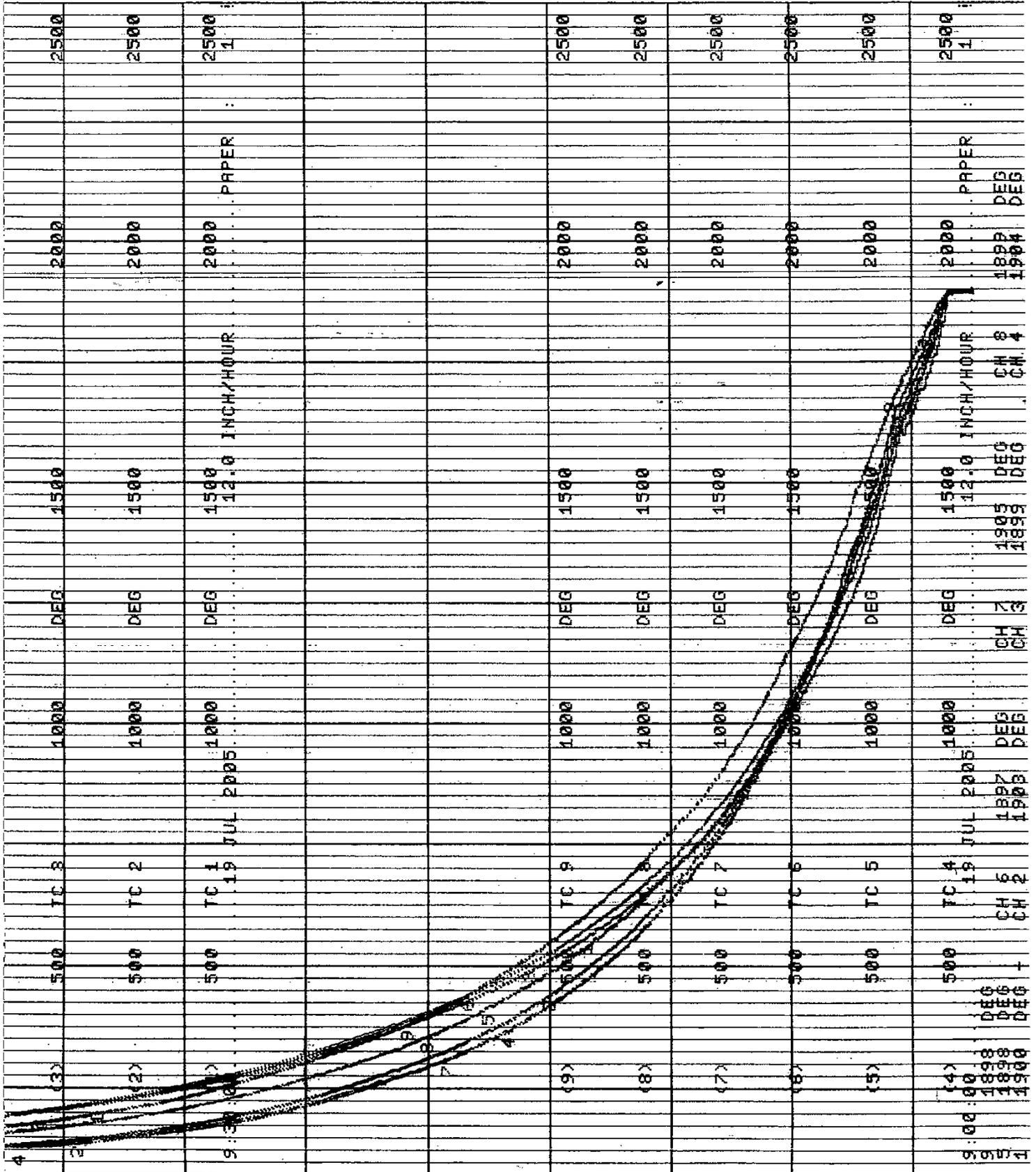
EXOTIC METAL TREATING, INC.
 6234 EAST HANNA AVENUE • INDIANAPOLIS, IN 46203

DATE: 7-19-05 COMPANY: MARTE TOOL
 LOAD #: 05-1308 MATERIAL: INCO 625
 QTY: 3 P/N: SE120-003-1-1
ANSEL SEGMENTS #1
 FURNACE: 6F-1 ATMOS: AIR
 REF. SPEC.: AMS-2774 A
 RECORDER: DPD/ol TIME START: 6:52AM

19 JUL 2005 19 JUL 2005
 6:52:00 6:37:00

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8:14						JUL 2005		TABULAR PRINTOUT					
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	1814	DEC		CH 2	1802	DEC		CH 3	1800	DEC		1802	DEC
8:00:00	1802	DEC		CH 19	JUL 2005				12.0	INCH/HOUR			PAPER
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	(7)	500	TC 7			1000		DEC	1500			2000	2500
	(6)	500	TC 6			1000		DEC	1500			2000	2500
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	(3)	500	TC 3			1000		DEC	1500			2000	2500
	(2)	500	TC 2			1000		DEC	1500			2000	2500

(3)	500	TC 3	1000	DEG	1500	2000	2500
(2)	500	TC 2	1000	DEG	1500	2000	2500
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(8)	500	TC 8	1000	DEG	1500	2000	2500
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8:30:00		19 JUL 2005			12.0 INCH/HOUR	PAPER	1
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(4)	500	TC 4	1000	DEG	1500	2000	2500
(3)	500	TC 3	1000	DEG	1500	2000	2500



65676



Certificate of Conformance

EXOTIC METAL TREATING INC.

Certificate # 50070

6234 E. Hanna Avenue • Indianapolis, Indiana

Vendor Code # 107576

P.O. # P05-03972 THRU P05-03974

Exotic Metal Treating Inc. hereby certifies that all materials used in the manufacture of parts **CONFORMS** to the material and/or manufacturing specifications indicated in drawings or specifications as called for on purchase order referenced hereon. Test reports are on file with us or with our suppliers for examination and indicate conformance with the applicable requirements. The parts listed below are processed in accordance with the drawings or specifications called for on referenced purchase order that are current on the date on which the order was accepted. Pertinent details of the work performed are on file at this facility under the process heat number listed hereon.

HEAT # 05-1308

DATE SHIPPED 7-19-05

QUANTITY

DESCRIPTION

3 PCS

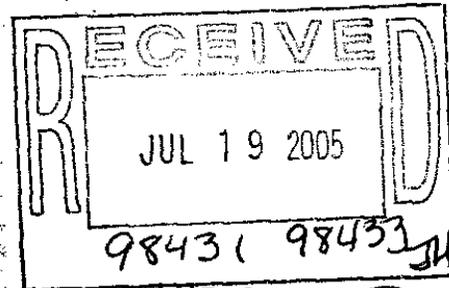
#SE120-003-1-1

JOB #65678-1/5, 65678-21/5, 65678-1/6 SEQ #30

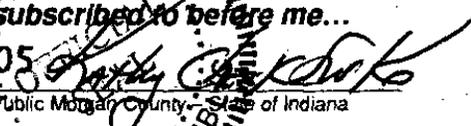
MATERIAL: INCO 625

SOLUTION ANNEALED PER AMS-2774-A
1900°F ± 15°F FOR 45 MINUTES ± 5 MINUTES
& RAPID AIR COOLED.

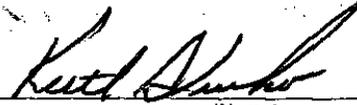
JUL 25 2005



Sworn and subscribed to before me...

on 7-19-05 
Notary Public Morgan County, State of Indiana

My commission expires 9-30-09

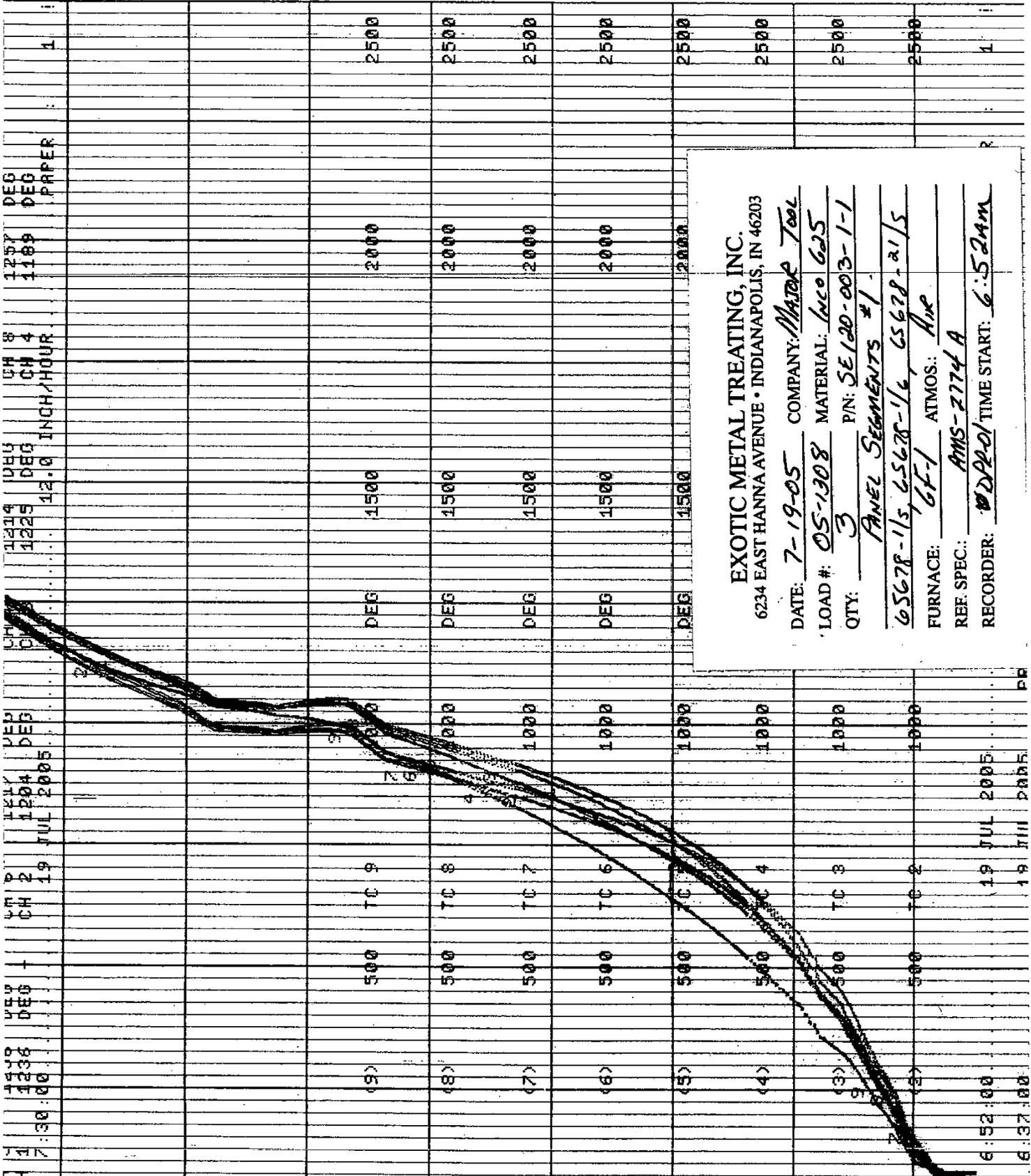


(Name)

QA

(Title)

4275 KA

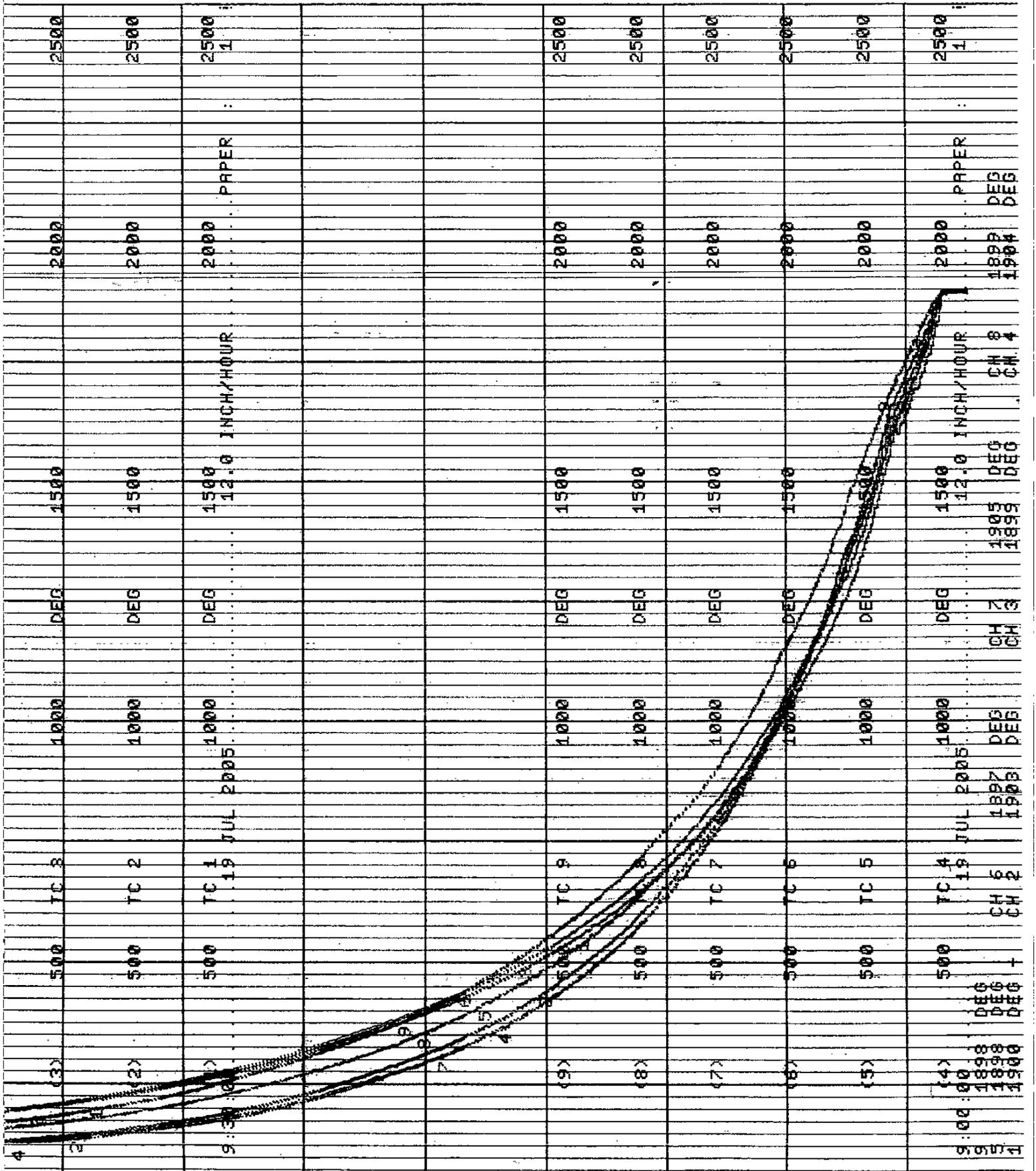


EXOTIC METAL TREATING, INC.
 6234 EAST HANNA AVENUE • INDIANAPOLIS, IN 46203

DATE: 7-19-05 COMPANY: MATER TOOL
 LOAD #: 05-1308 MATERIAL: INCO 625
 QTY: 3 P/N: SE120-003-1-1
PANEL SEGMENTS #1
65678-1/5, 65678-1/6, 65678-2/15
 FURNACE: 6F-1 ATMOS: AIR
 REF. SPEC.: AMS-2774 A
 RECORDER: WDP/01 TIME START: 6:52AM

6:52:00 19 JUL 2005
 6:37:00 19 JUL 2005

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(8)	500	TC 8	1000	DEG	1500	2000	2500
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(5)	500	TC 5	1000	DEG	1500	2000	2500
(4)	500	TC 4	1000	DEG	1500	2000	2500
(3)	500	TC 3	1000	DEG	1500	2000	2500



65678



Certificate of Conformance

EXOTIC METAL TREATING INC.

Certificate # 50087

6234 E. Hanna Avenue • Indianapolis, Indiana

Vendor Code # 107576

P.O. # P05-03986, P05-04018 THRU -04020

Exotic Metal Treating Inc. hereby certifies that all materials used in the manufacture of parts CONFORMS to the material and/or manufacturing specifications indicated in drawings or specifications as called for on purchase order referenced hereon. Test reports are on file with us or with our suppliers for examination and indicate conformance with the applicable requirements. The parts listed below are processed in accordance with the drawings or specifications called for on referenced purchase order that are current on the date on which the order was accepted. Pertinent details of the work performed are on file at this facility under the process heat number listed hereon.

HEAT # 05-1328

DATE SHIPPED 7-21-05

QUANTITY

DESCRIPTION

4 PCS

#SE120-003-1-2

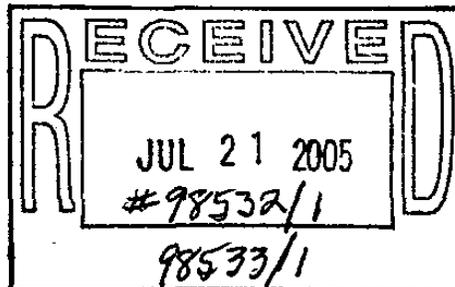
JOB #65678-22/4, 65678-2/5,

65678-22/5, 65678-2/6 ✓ SEQ #30

MATERIAL: INCO 625

SOLUTION ANNEALED PER AMS-2774-A
1900°F ± 15°F FOR 45 MINUTES ± 5 MINUTES
& RAPID AIR COOLED.

JUL 25 2005



98534/1
98535/1



RKL

Sworn and subscribed to before me...

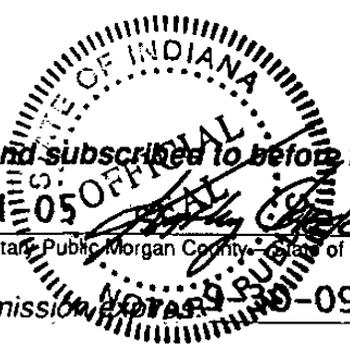
on 7-21-05

Notary Public Morgan County, State of Indiana

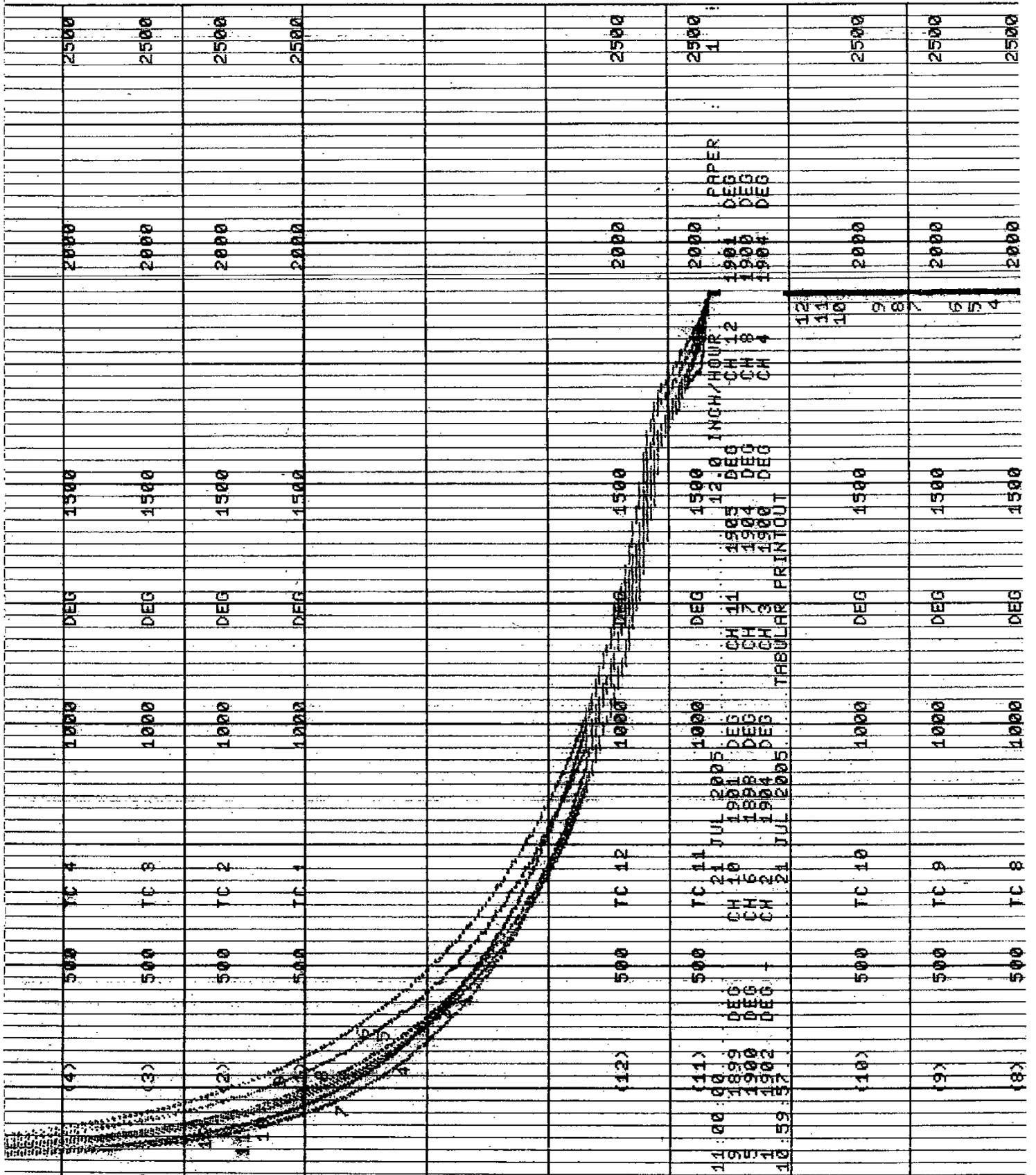
My commission expires 09-09-09

(Name)

(Title)



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(4)	500	TC 4	DEG	1000	1500	2500
(3)	500	TC 3	DEG	1000	1500	2500
(2)	500	TC 2	DEG	1000	1500	2500
(1)	500	TC 1	DEG	1000	1500	2500
(12)	500	TC 12	DEG	1000	1500	2500
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1892	DEG	CH 6	1898 DEG	1899 DEG	1899 DEG	1892 DEG
1896	DEG	CH 2	1897 DEG	1893 DEG	1893 DEG	1896 DEG
1897	DEG	CH 1	JUL 2005	TRABULAR PRINTOUT		
(11)	500	TC 11	DEG	1000	1500	2500
(10)	500	TC 10	DEG	1000	1500	2500



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 0:05
 0:00

65678



Certificate of Conformance

EXOTIC METAL TREATING INC.

Certificate # 50087

6234 E. Hanna Avenue • Indianapolis, Indiana

Vendor Code # 107576

P.O. # P05-03986, P05-04018 THRU -04020

Exotic Metal Treating Inc. hereby certifies that all materials used in the manufacture of parts CONFORMS to the material and/or manufacturing specifications indicated in drawings or specifications as called for on purchase order referenced hereon. Test reports are on file with us or with our suppliers for examination and indicate conformance with the applicable requirements. The parts listed below are processed in accordance with the drawings or specifications called for on referenced purchase order that are current on the date on which the order was accepted. Pertinent details of the work performed are on file at this facility under the process heat number listed hereon.

HEAT # 05-1328

DATE SHIPPED 7-21-05

QUANTITY

DESCRIPTION

4 PCS

#SE120-003-1-2

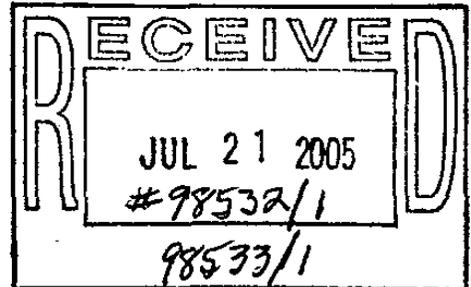
JOB #65678-22/4, 65678-2/5,

65678-22/5, 65678-2/6 ✓ SEQ #30

MATERIAL: INCO 625

SOLUTION ANNEALED PER AMS-2774-A
1900°F ± 15°F FOR 45 MINUTES ± 5 MINUTES
& RAPID AIR COOLED.

JUL 25 2005



RKL

Sworn and subscribed to before me...

on 7-21-05

Notary Public Morgan County, State of Indiana

My commission expires 09-09-09

(Name)

(Title)

4275 Ka

1859	DEG	500	TC 8	1855	DEG	1000	DEG	1864	DEG	1500	CH 12	2000	DEG	2500
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(4)		500	TC 4			1000	DEG			1500		2000		2500
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(2)		500	TC 2			1000	DEG			1500		2000		2500
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1463	DEG	500	CH 10	1528	DEG	1000	CH 11	1491	DEG	1500	CH 12	1527	DEG	2500
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1891	DEG	CH 10	1895	DEG	1897	DEG	1894
1892	DEG	CH 6	1898	DEG	1899	DEG	1892
1893	DEG	CH 2	1897	DEG	1893	DEG	1898
1894	DEG	CH 21	JUL 2005	DEG	TRABULAR PRINTOUT	DEG	1898
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(10)	500	TC 10	1000	DEG	1500	2000	2500



Certificate of Conformance

EXOTIC METAL TREATING INC.

Certificate # 50233

6234 E. Hanna Avenue • Indianapolis, Indiana

Vendor Code # 107576

P.O. # P05-04575

Exotic Metal Treating Inc. hereby certifies that all materials used in the manufacture of parts **CONFORMS** to the material and/or manufacturing specifications indicated in drawings or specifications as called for on purchase order referenced hereon. Test reports are on file with us or with our suppliers for examination and indicate conformance with the applicable requirements. The parts listed below are processed in accordance with the drawings or specifications called for on referenced purchase order that are current on the date on which the order was accepted. Pertinent details of the work performed are on file at this facility under the process heat number listed hereon.

HEAT # 05-1494

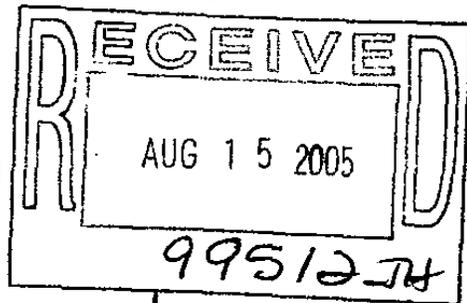
DATE SHIPPED 8-15-05

QUANTITY	DESCRIPTION
2 PCS	#SE120-003-1-3 JOB #65678-23/5, 65678-3/5 SEQ #30

MATERIAL: INCO 625

SOLUTION ANNEALED PER AMS-2774-A
1900°F ± 15°F FOR 45 MINUTES ± 5 MINUTES
& RAPID AIR COOLED.

AUG 16 2005



Sworn and subscribed to before me...

on 8-15-05

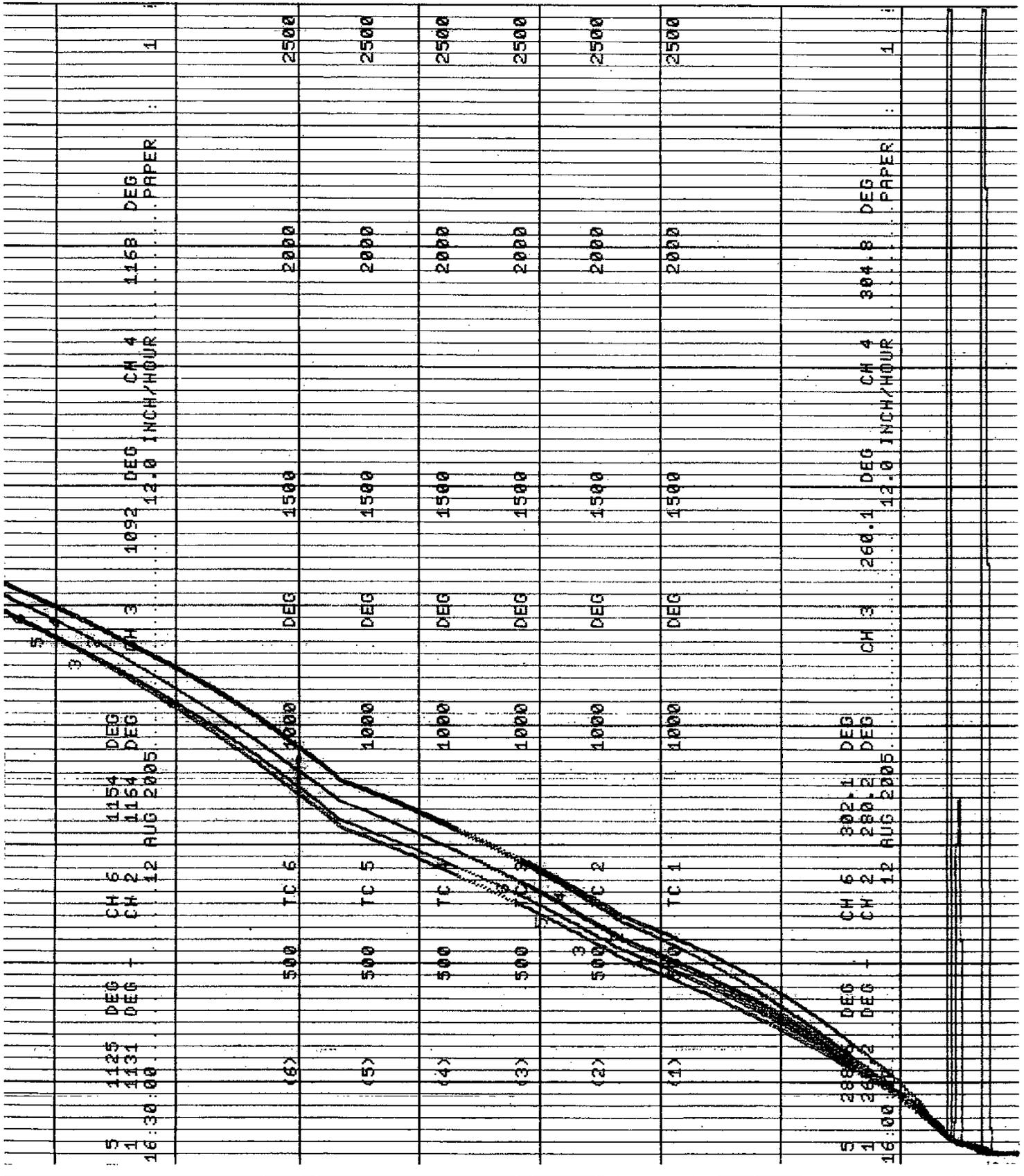
Notary Public Morgan County State of Indiana

My commission expires 9-30-09

[Signature]
(Name)

PT
(Title)

4275 KA



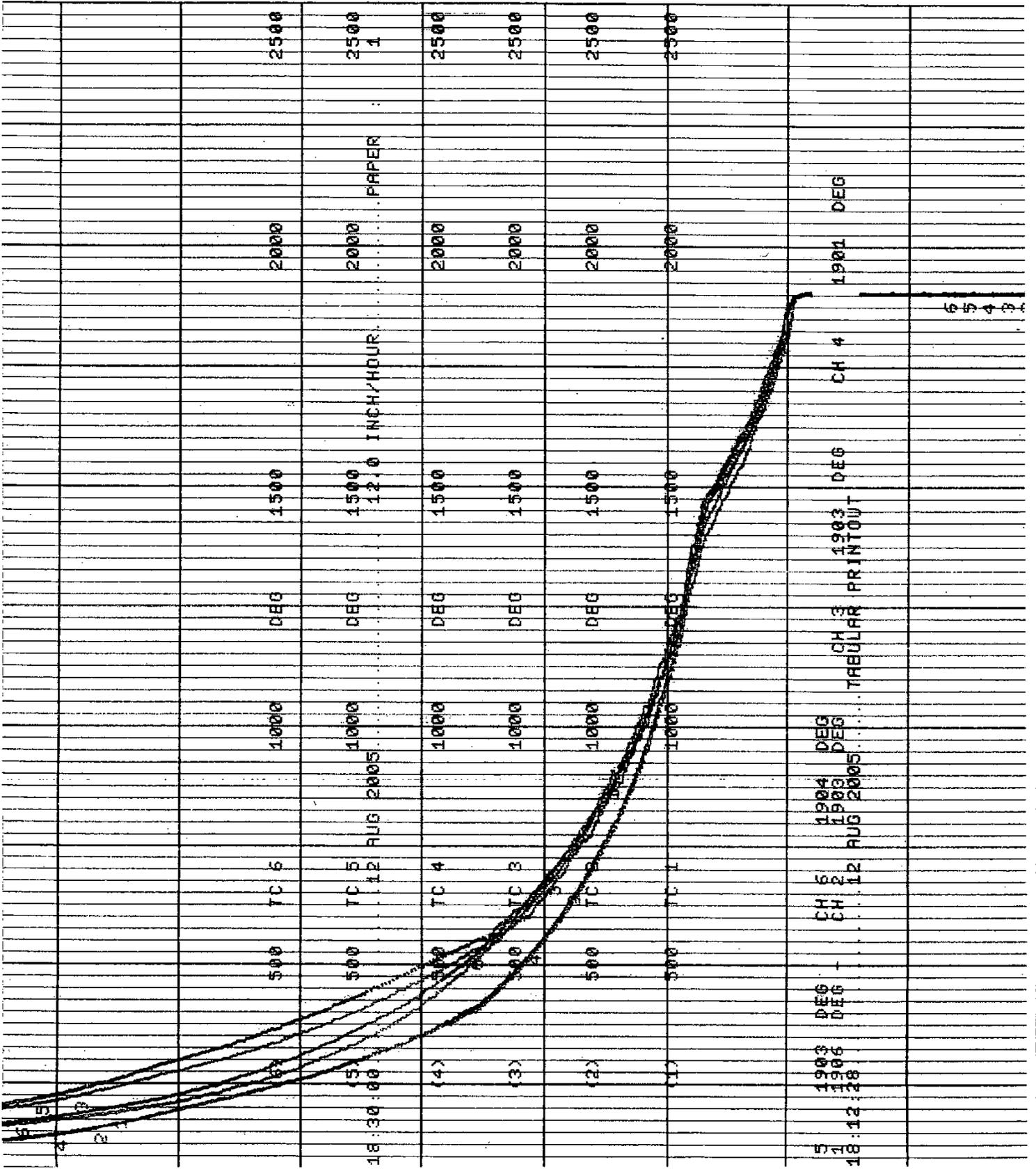
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 16:30:00

(6) 500 TC 6 1000 DEG 1500 2000 2500
 (5) 500 TC 5 1000 DEG 1500 2000 2500
 (4) 500 TC 4 1000 DEG 1500 2000 2500
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5 2882 DEG - CH 6 302.1 DEG 304.8 DEG 304.8 DEG 1
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 16:00:00

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(4)	500	TC 4	1000	DEG	1500		2000	2500
(3)	500	TC 3	1000	DEG	1500		2000	3500
(2)	500	TC 2	1000	DEG	1500	654	2000	2500
(1)	500	TC 1	1000	DEG	1500	921	2000	2500
17:30:00		12 AUG 2005			12.0 INCH/HOUR		PAPER	1
(5)	500	TC 5	1000	DEG	1500		2000	2500
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1893	DEG	CH 2	1896	DEG	TABULAR PRINTOUT			
17:26:36		12 AUG 2005						
(4)	500	TC 4	1000	DEG	1500		2000	2500

4275 Ka





Certificate of Conformance

EXOTIC METAL TREATING INC.

6234 E. Hanna Avenue • Indianapolis, Indiana

Certificate # 50266

Vendor Code # 107576

P.O. # P05-04576

Exotic Metal Treating Inc. hereby certifies that all materials used in the manufacture of parts **CONFORMS** to the material and/or manufacturing specifications indicated in drawings or specifications as called for on purchase order referenced hereon. Test reports are on file with us or with our suppliers for examination and indicate conformance with the applicable requirements. The parts listed below are processed in accordance with the drawings or specifications called for on referenced purchase order that are current on the date on which the order was accepted. Pertinent details of the work performed are on file at this facility under the process heat number listed hereon.

HEAT # 05-1529

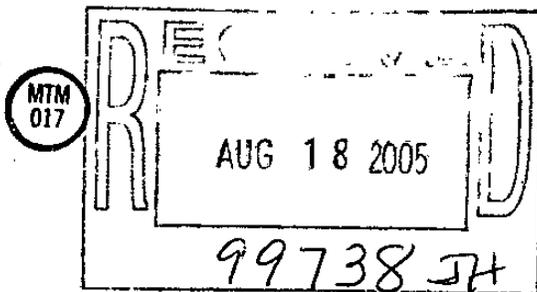
DATE SHIPPED 8-18-05

QUANTITY	DESCRIPTION
2 PCS	#SE120-003-1-4 JOB #65678-24/5, 65678-4/5 SEQ #30

MATERIAL: INCO 625

SOLUTION ANNEALED PER AMS-2774-A
1900°F ± 15°F FOR 45 MINUTES ± 5 MINUTES
& RAPID AIR COOLED.

AUG 25 2005



Sworn and subscribed to before me...

on 8-18-05
Notary Public Morgan County - State of Indiana

My commission expires 9-30-09

[Signature]
(Name)

[Signature]
(Title)

Lines 1 & 2



Certificate of Conformance

EXOTIC METAL TREATING INC.

6234 E. Hanna Avenue • Indianapolis, Indiana

Certificate # 50265

Vendor Code # 107576

P.O. # P05-04579

Exotic Metal Treating Inc. hereby certifies that all materials used in the manufacture of parts **CONFORMS** to the material and/or manufacturing specifications indicated in drawings or specifications as called for on purchase order referenced hereon. Test reports are on file with us or with our suppliers for examination and indicate conformance with the applicable requirements. The parts listed below are processed in accordance with the drawings or specifications called for on referenced purchase order that are current on the date on which the order was accepted. Pertinent details of the work performed are on file at this facility under the process heat number listed hereon.

HEAT # 05-1533

DATE SHIPPED 8-18-05

QUANTITY

DESCRIPTION

1 PC

#SE120-003-1-4

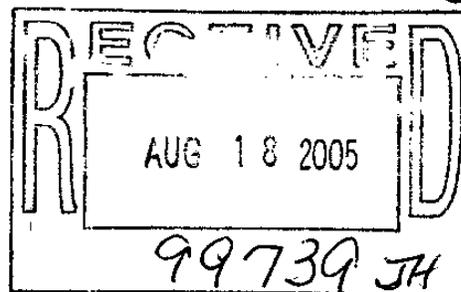
JOB #65678-4/6

SEQ #30

MATERIAL: INCO 625

SOLUTION ANNEALED PER AMS-2774-A
1900°F ± 15°F FOR 45 MINUTES ± 5 MINUTES
& RAPID AIR COOLED.

AUG 25 2005



Sworn and subscribed to before me...

on 8-18-05

Notary Public Morgan County, State of Indiana

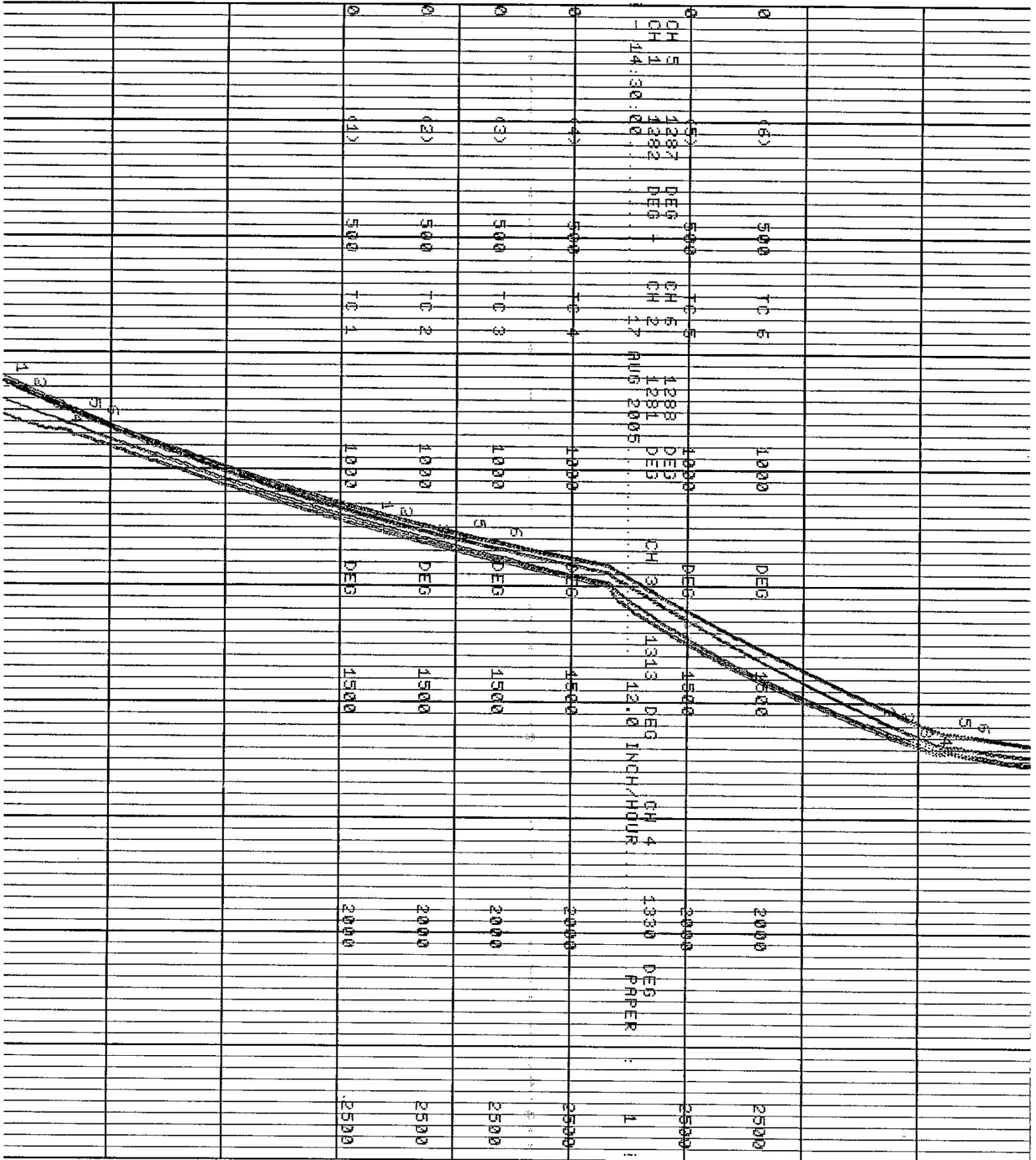
My commission expires: 9-30-09

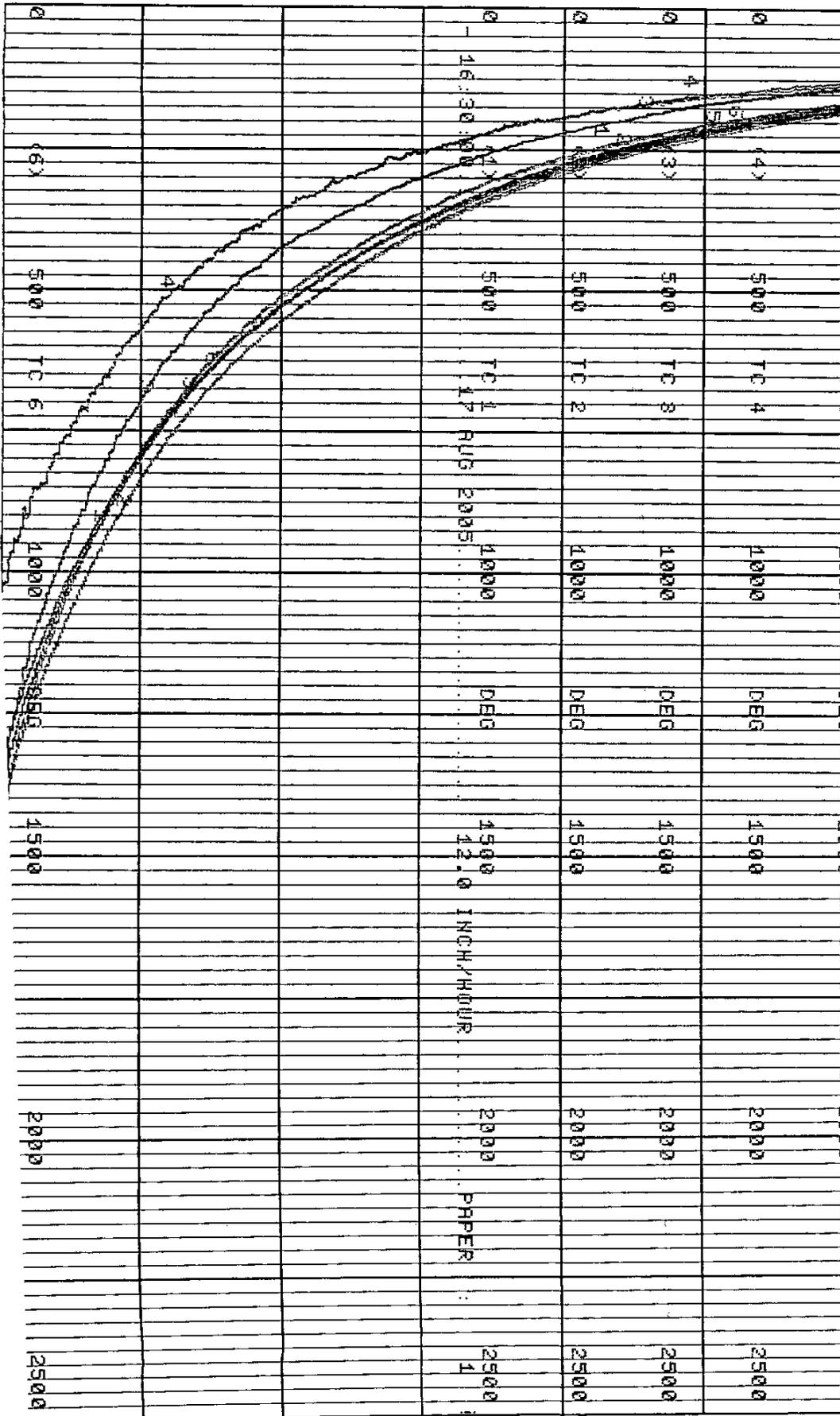
Keith Shuck

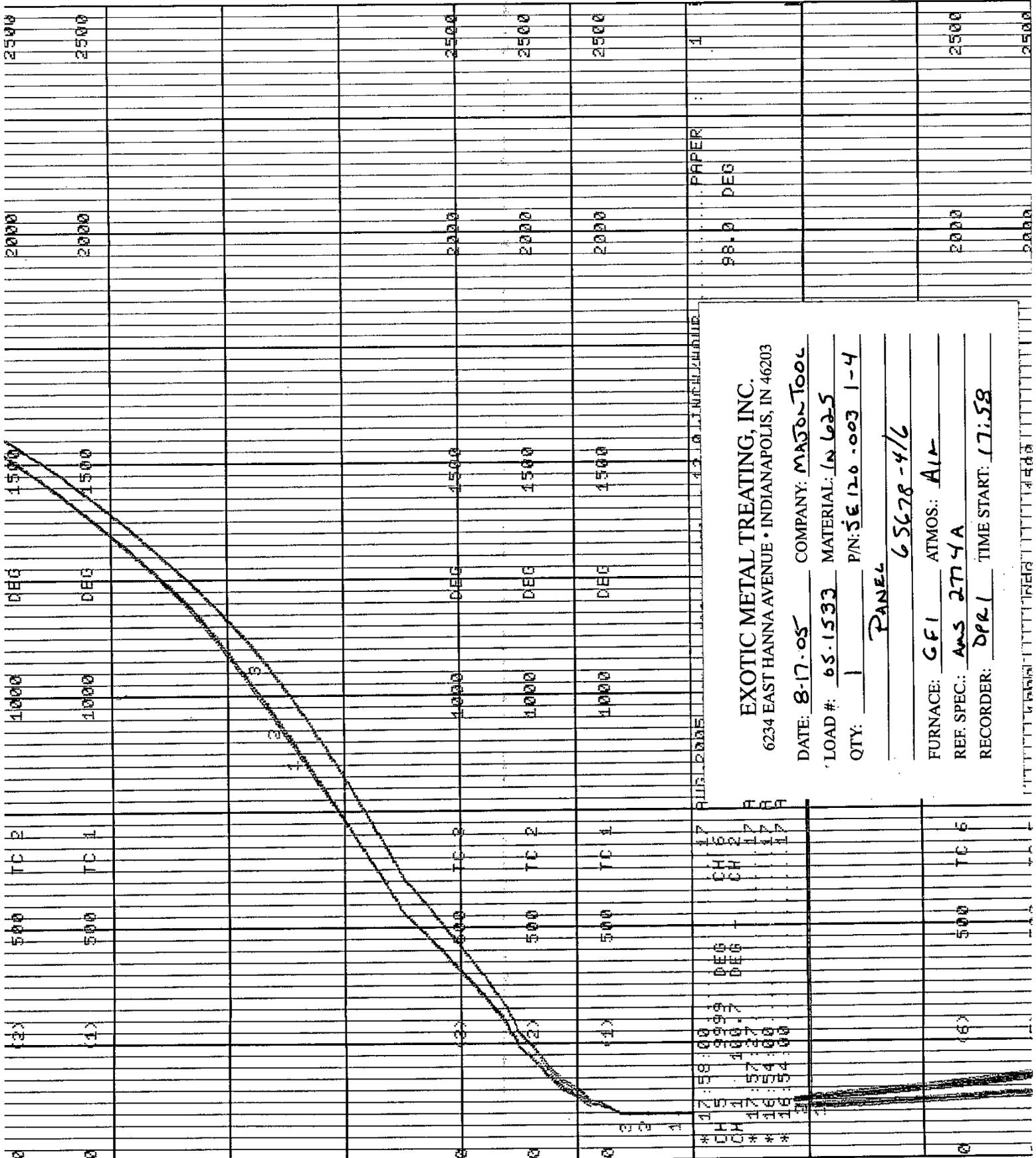
(Name)

QA

(Title)



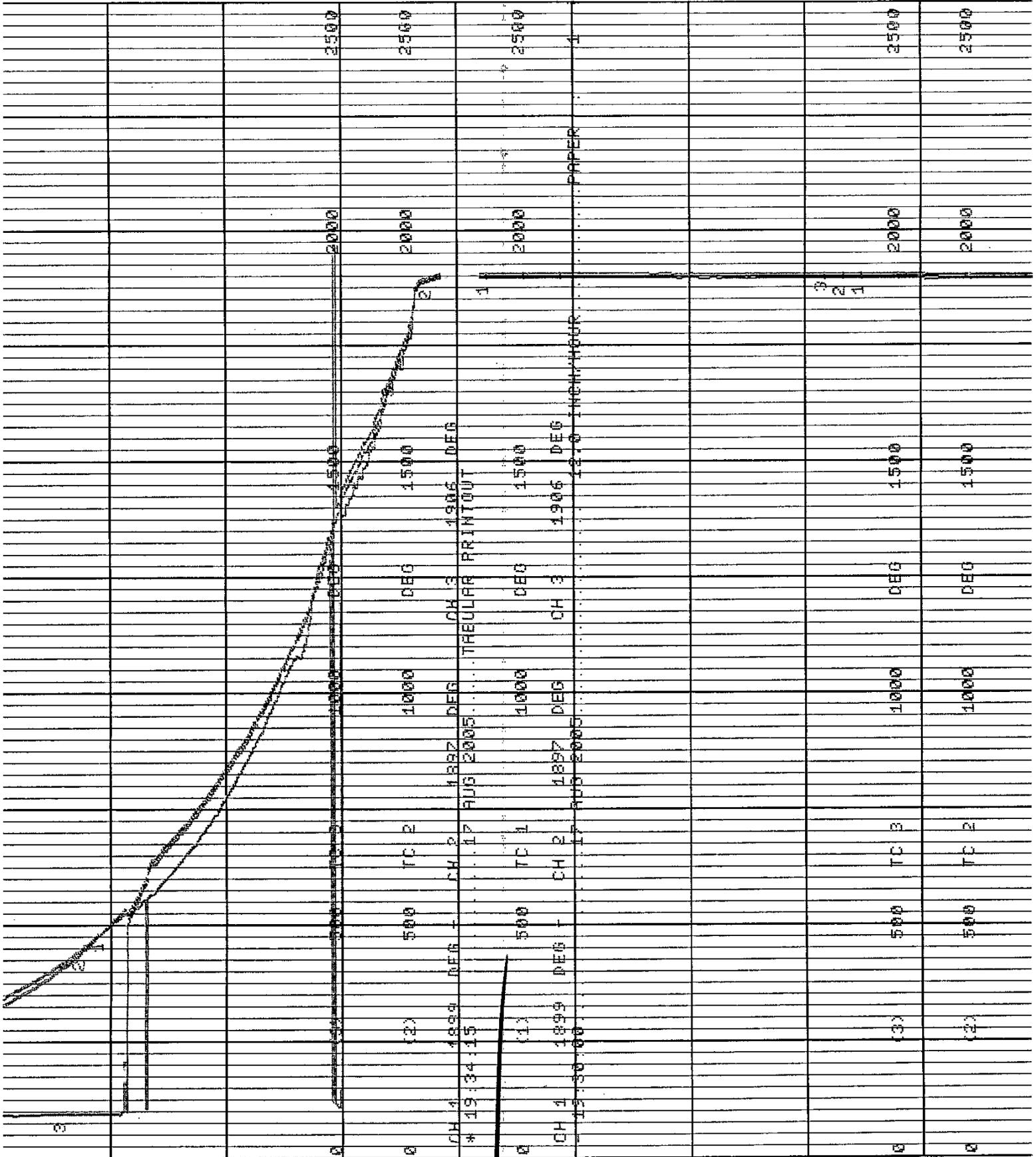




EXOTIC METAL TREATING, INC.
 6234 EAST HANNA AVENUE • INDIANAPOLIS, IN 46203
 DATE: 8-17-05 COMPANY: MASON TOOL
 LOAD #: 65-1533 MATERIAL: N 625
 QTY: 1 P/N: SE 120-003 1-4
PANEL
65678-4/6
 FURNACE: GFI ATMOS: Air
 REF. SPEC.: AMS 2704A
 RECORDER: DPL TIME START: 17:58

17:58:00	DEG	TC 2	17
17:58:10	DEG	TC 1	17
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18:24:50	DEG	TC 1	17
18:25:00	DEG	TC 2	17

4275 Ka



CH 1 1899 DEG - CH 2 1887 DEG CH 3 1906 DEG
 * 19:34:15 17 AUG 2005 THEULAR PRINTOUT

CH 1 1899 DEG - CH 2 1897 DEG CH 3 1906 DEG
 19:50:00 17 AUG 2005 PAPER

0 2500 2500

0 2000 2000

0 1500 1500

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0 2000 2000

0 1500 1500

0 1000 1000

0 500 500

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INCH-HOUR

DEG

DEG

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DEG

DEG

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TC 2

TC 1

TC 3

TC 2

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Certificate of Conformance

EXOTIC METAL TREATING INC.

Certificate # 50467

6234 E. Hanna Avenue • Indianapolis, Indiana

Vendor Code # 107576

P.O. # P05-05513

NADCAP

Exotic Metal Treating Inc. hereby certifies that all materials used in the manufacture of parts **CONFORMS** to the material and/or manufacturing specifications indicated in drawings or specifications as called for on purchase order referenced hereon. Test reports are on file with us or with our suppliers for examination and indicate conformance with the applicable requirements. The parts listed below are processed in accordance with the drawings or specifications called for on referenced purchase order that are current on the date on which the order was accepted. Pertinent details of the work performed are on file at this facility under the process heat number listed hereon.

HEAT # 05-1788

DATE SHIPPED 9-26-05

QUANTITY

DESCRIPTION

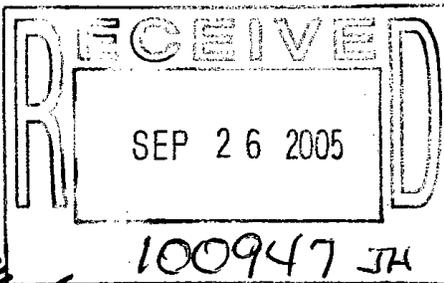
1 PC SE120-003-1-5

JOB # 65678-5/5 SEQ #70

MATERIAL: INCO 625

SOLUTIONED PER AMS-2774-A & PO AT 1900°F ± 15°F FOR 45 MINUTES ± 5 MINUTES & RAPID AIR COOLED.

SEP 26 2005



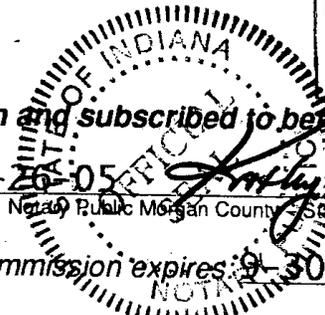
Sworn and subscribed to before me... Line 1

on 9-26-05 at Indianapolis Notary Public Morgan County State of Indiana

Kurt Shuber
(Name)

My commission expires 9-30-05

QA
(Title)



CH02 00147	1423 24SEP05	CH03 1457	CH04 1458	F	F
CH02 00145	1428 24SEP05	CH03 1420	CH04 1419	F	F
CH02 00143	1390 24SEP05	CH03 1380	CH04 1377	F	F
CH02 00141	1351 24SEP05	CH03 1338	CH04 1333	F	4.71D4
CH02 00137	1265 24SEP05	CH03 1241	CH04 1233	F	F
CH02 00135	1214 24SEP05	CH03 1182	CH04 1172	F	F
CH02 00133	1157 24SEP05	CH03 1117	CH04 1105	F	F
CH02 00131	1095 24SEP05	CH03 1050	CH04 1028	F	F
L 00:30:00 24 SEP 05 GROUP A 15.00inch/h					
CH02 00127	826 24SEP05	CH03 859	CH04 817	F	F
CH02 00125	774 24SEP05	CH03 720	CH04 670	F	F
CH02 00123	565 24SEP05	CH03 535	CH04 500	F	F
CH02 00118	503 24SEP05	CH03 294	CH04 277	F	F
* 00:17:48 24 SEP 05					

EXOTIC METAL TREATING, INC.
 6234 EAST HANNA AVENUE • INDIANAPOLIS, IN 46203
 DATE: 9-24-05 COMPANY: Major
 LOAD #: 05-1288 MATERIAL: Inco 625
 QTY: 1 P/N: SE120-003-1-5
65678-5/5
 FURNACE: GF-2 ATMOS.: AIR
 REC. SPEC.: AMS-2774-A
 RECORDER: DPR-06 TIME START: 12:11A

#01

#01

CH02	1884	*F	CH03	1887	*F	CH04	1886	*F
CH02	1885	*F	CH03	1888	*F	CH04	1887	*F
01 17	24SEP05							
CH02	1883	*F	CH03	1886	*F	CH04	1885	*F
01 17	24SEP05							
CH02	1880	*F	CH03	1883	*F	CH04	1882	*F
01 15	24SEP05							
CH02	1873	*F	CH03	1876	*F	CH04	1875	*F
01 13	24SEP05							
CH02	1864	*F	CH03	1865	*F	CH04	1865	*F
01 11	24SEP05							
CH02	1809	*F	CH03	1810	*F	CH04	1812	*F
01 07	24SEP05							
CH02	1776	*F	CH03	1776	*F	CH04	1779	*F
01 05	24SEP05							
CH02	1743	*F	CH03	1743	*F	CH04	1746	*F
01 03	24SEP05							
CH02	1710	*F	CH03	1709	*F	CH04	1712	*F
01 01	24SEP05							
- 01 00 00 24 SEP 05 GROUP A								
CH02	1640	*F	CH03	1639	*F	CH04	1641	*F
00 57	24SEP05							
CH02	1605	*F	CH03	1603	*F	CH04	1605	*F
00 55	24SEP05							
CH02	1570	*F	CH03	1567	*F	CH04	1569	*F
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CH02	1535	*F	CH03	1531	*F	CH04	1533	*F
00 51	24SEP05							

2/T02

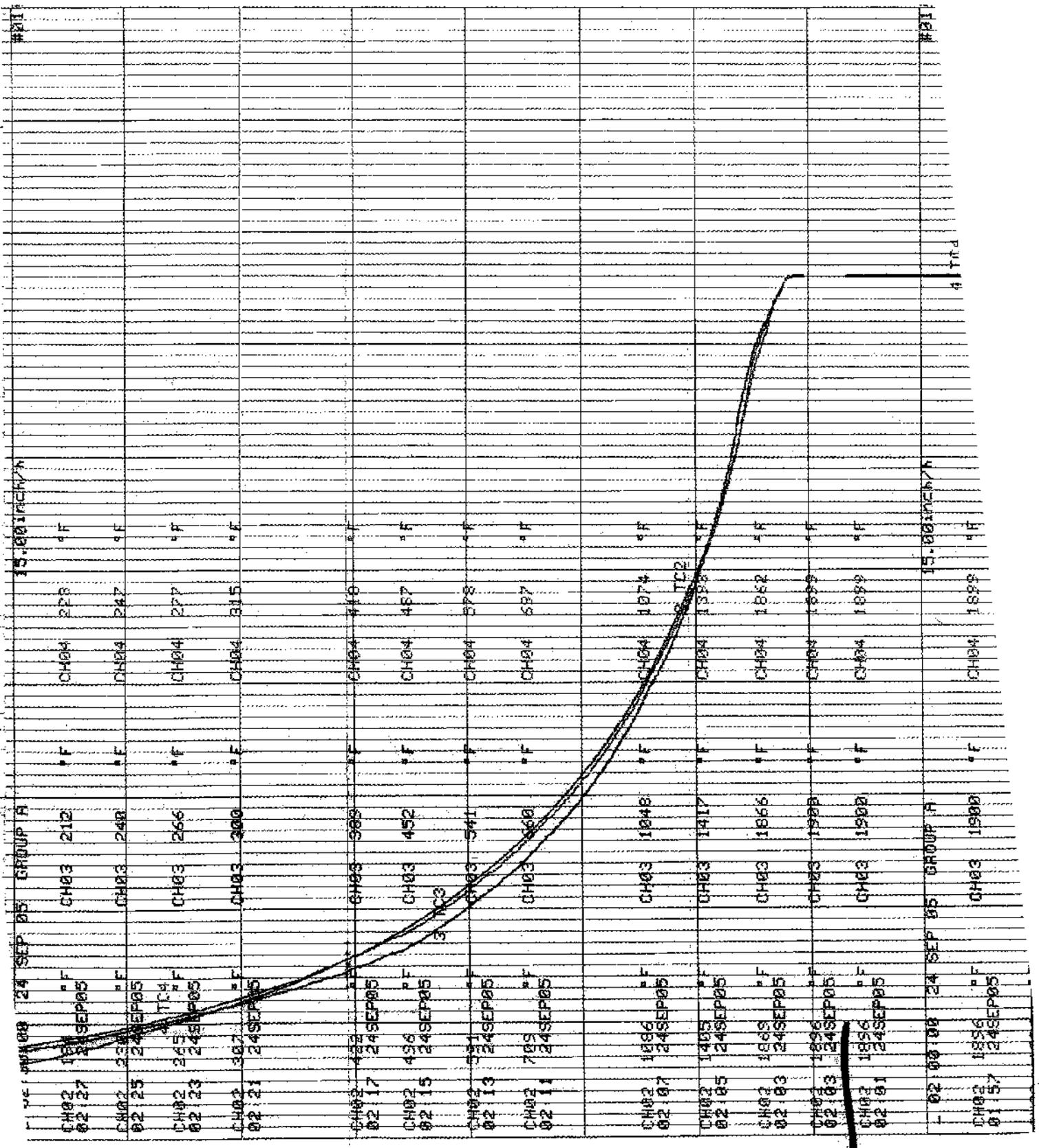
4/T04

9/T03

15.00inch/h

2/T02

#01



4 TTD



Certificate of Conformance

EXOTIC METAL TREATING INC.

6234 E. Hanna Avenue • Indianapolis, Indiana

Certificate # 49939

Vendor Code # 107576

P.O. # P05-03546 & P05-03555

Exotic Metal Treating Inc. hereby certifies that all materials used in the manufacture of parts **CONFORMS** to the material and/or manufacturing specifications indicated in drawings or specifications as called for on purchase order referenced hereon. Test reports are on file with us or with our suppliers for examination and indicate conformance with the applicable requirements. The parts listed below are processed in accordance with the drawings or specifications called for on referenced purchase order that are current on the date on which the order was accepted. Pertinent details of the work performed are on file at this facility under the process heat number listed hereon.

HEAT # 05-1143

DATE SHIPPED 6-25-05

QUANTITY

DESCRIPTION

2 PCS

#SE120-003-1-10

JOB #65678-5/4, 65678-25/5 SEQ #30

MATERIAL: INCO 625

SOLUTION ANNEALED PER AMS-2774-A
1900°F ± 15°F FOR 45 MINUTES ± 5 MINUTES
& RAPID AIR COOLED.

06-27-05
97558 line ① WX
97559 line ①



Sworn and subscribed to before me...

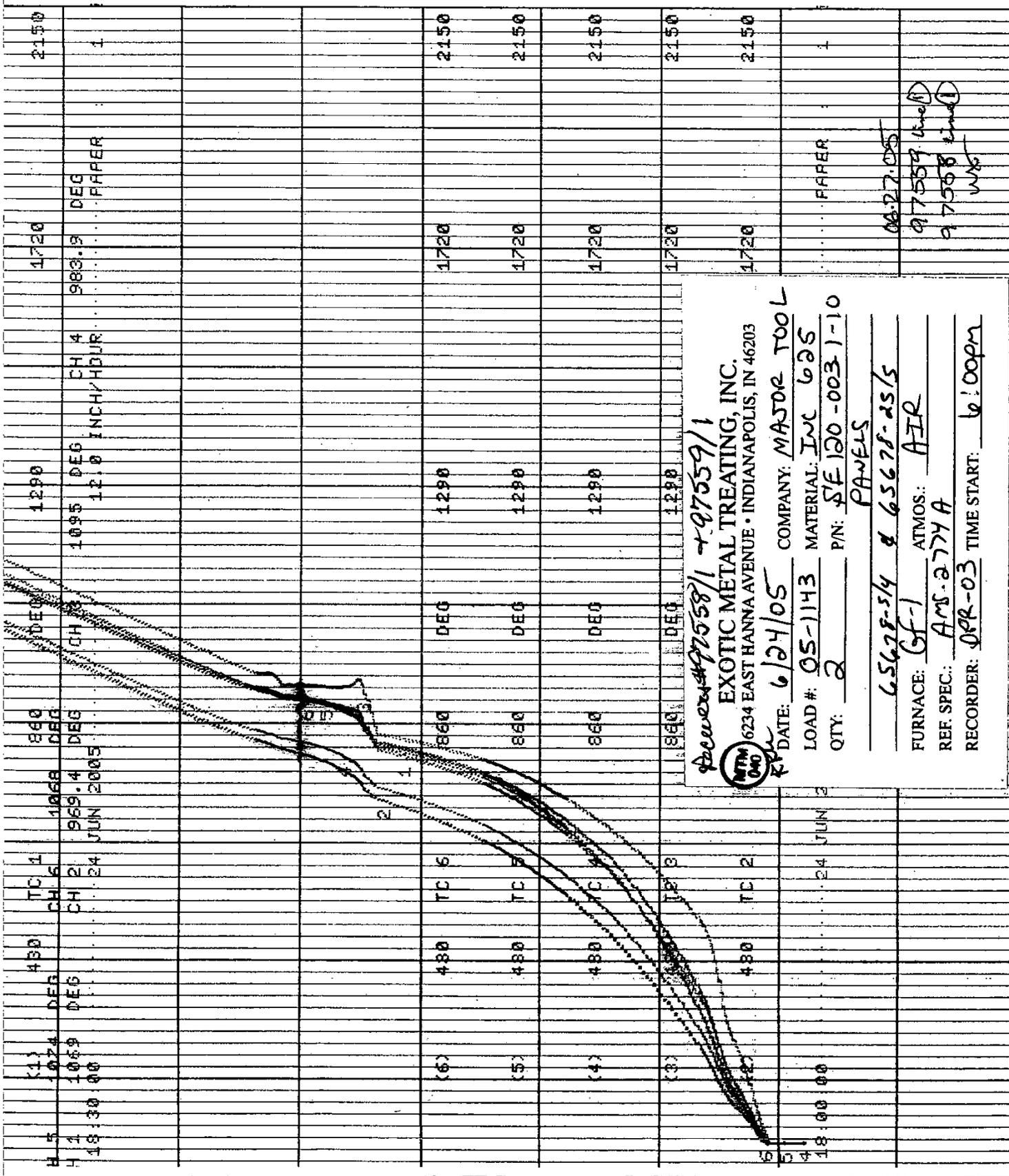
on 06-27-05 [Signature]
Notary Public Morgan County State of Indiana

My commission expires 06-30-09

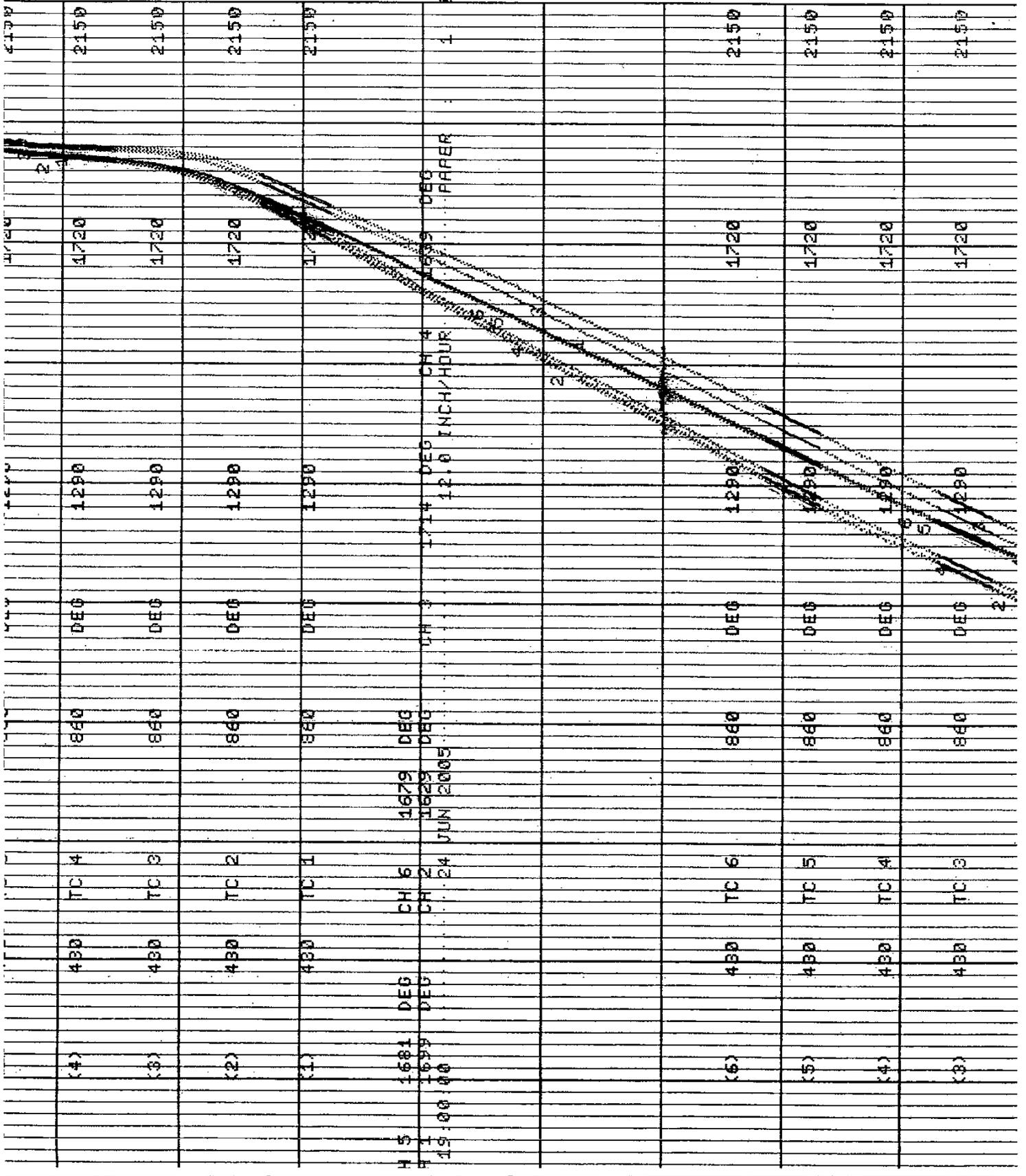
[Signature]
(Name)

[Signature]
(Title)

4275 KA



Review #97558/1 + 97559/1
EXOTIC METAL TREATING, INC.
 6234 EAST HANNA AVENUE • INDIANAPOLIS, IN 46203
 DATE: 6/24/05 COMPANY: MAJOR TOOL
 LOAD #: 05-1143 MATERIAL: JVC 60S
 QTY: 2 P/N: SE 100-0031-10
 65678-54 & 65678-25/5
 FURNACE: Cf-1 ATMOS: AIR
 REF. SPEC: AMS-277Y A
 RECORDER: DFR-03 TIME START: 6:00pm
 97558 (hand)
 97559 (hand)
 WXS



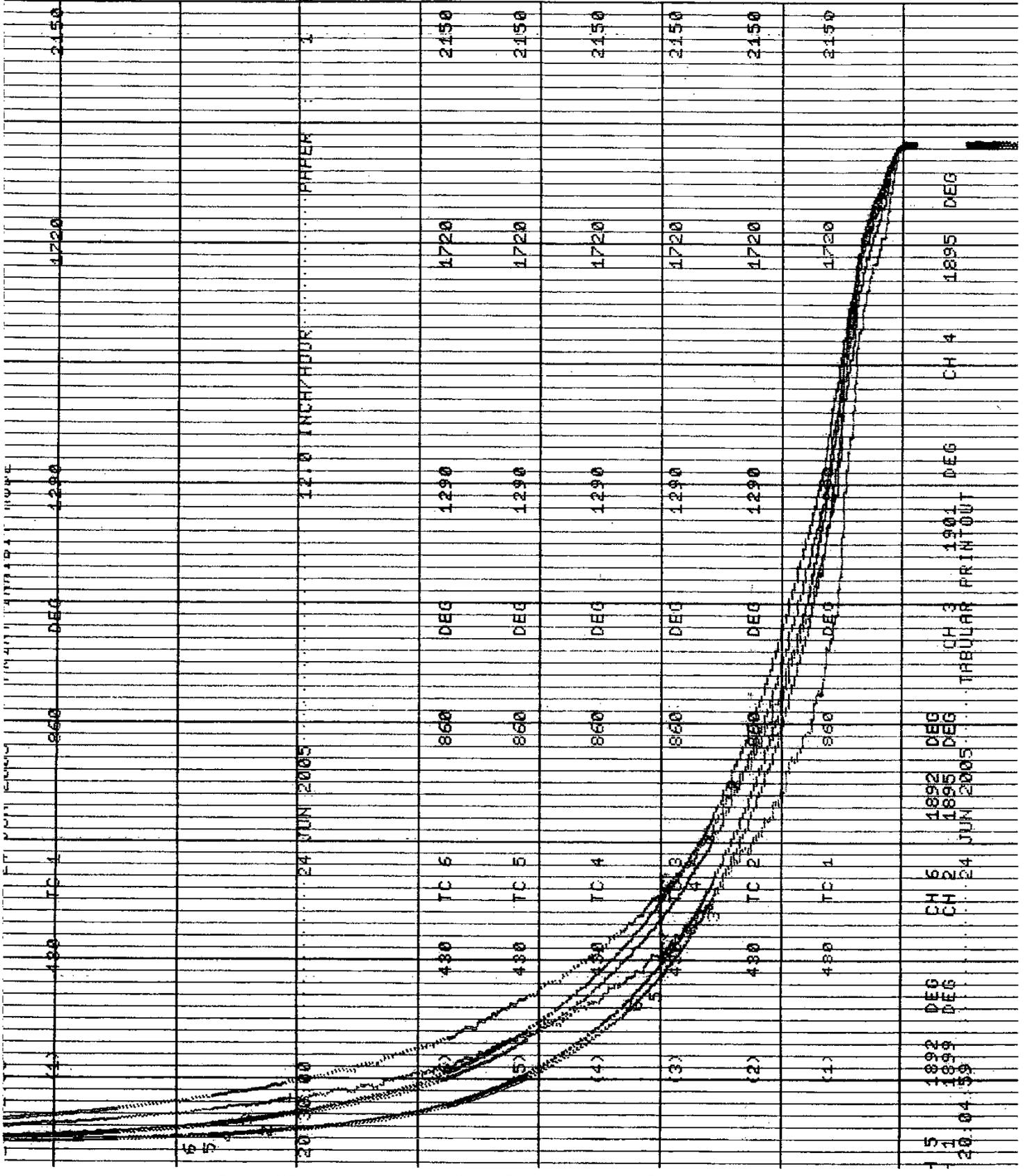
19:30:00	1885	DEG	CH 5	1885	DEG	24 JUN 2005	12.0 INCH/HOUR	FAFE	1	2150
(6)	430	TC 6	860	860	DEG	1290	1720	1720	2150	
(5)	430	TC 5	860	860	DEG	1290	1720	1720	2150	
(4)	430	TC 4	860	860	DEG	1290	1720	1720	2150	
(3)	430	TC 3	860	860	DEG	1290	1720	1720	2150	
(2)	430	TC 2	860	860	DEG	1290	1720	1720	2150	
(1)	430	TC 1	860	860	DEG	1290	1720	1720	2150	
1885	DEG	CH 5	1885	DEG	24 JUN 2005	12.0 INCH/HOUR	FAFE	1	2150	

5 4 3 2 1

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5 4 3 2 1

4275 Ka



1892 JUN 2005
 CH 1
 CH 2
 CH 3
 CH 4
 CH 5
 CH 6
 TABULAR PRINTOUT



Certificate of Conformance

EXOTIC METAL TREATING INC.

6234 E. Hanna Avenue • Indianapolis, Indiana

Certificate # 50151

Vendor Code # 107576

P.O. # P05-04057, P05-04048, P05-03857

Exotic Metal Treating Inc. hereby certifies that all materials used in the manufacture of parts CONFORMS to the material and/or manufacturing specifications indicated in drawings or specifications as called for on purchase order referenced hereon. Test reports are on file with us or with our suppliers for examination and indicate conformance with the applicable requirements. The parts listed below are processed in accordance with the drawings or specifications called for on referenced purchase order that are current on the date on which the order was accepted. Pertinent details of the work performed are on file at this facility under the process heat number listed hereon.

HEAT # 05-1396

DATE SHIPPED 7-30-05

QUANTITY

DESCRIPTION

5 PCS

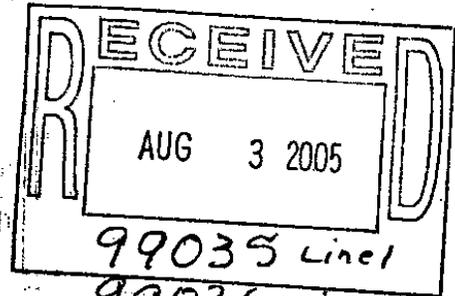
#SE120-003-1-10

JOB #65678-6/5, 65678-26/5, 65678-6/6,
65678-26/4, 65678-6/4 SEQ #30

MATERIAL: INCO 625

SOLUTION ANNEALED PER AMS-2774-A
1900°F ± 15°F FOR 45 MINUTES ± 5 MINUTES
& RAPID AIR COOLED.

AUG 04 2005



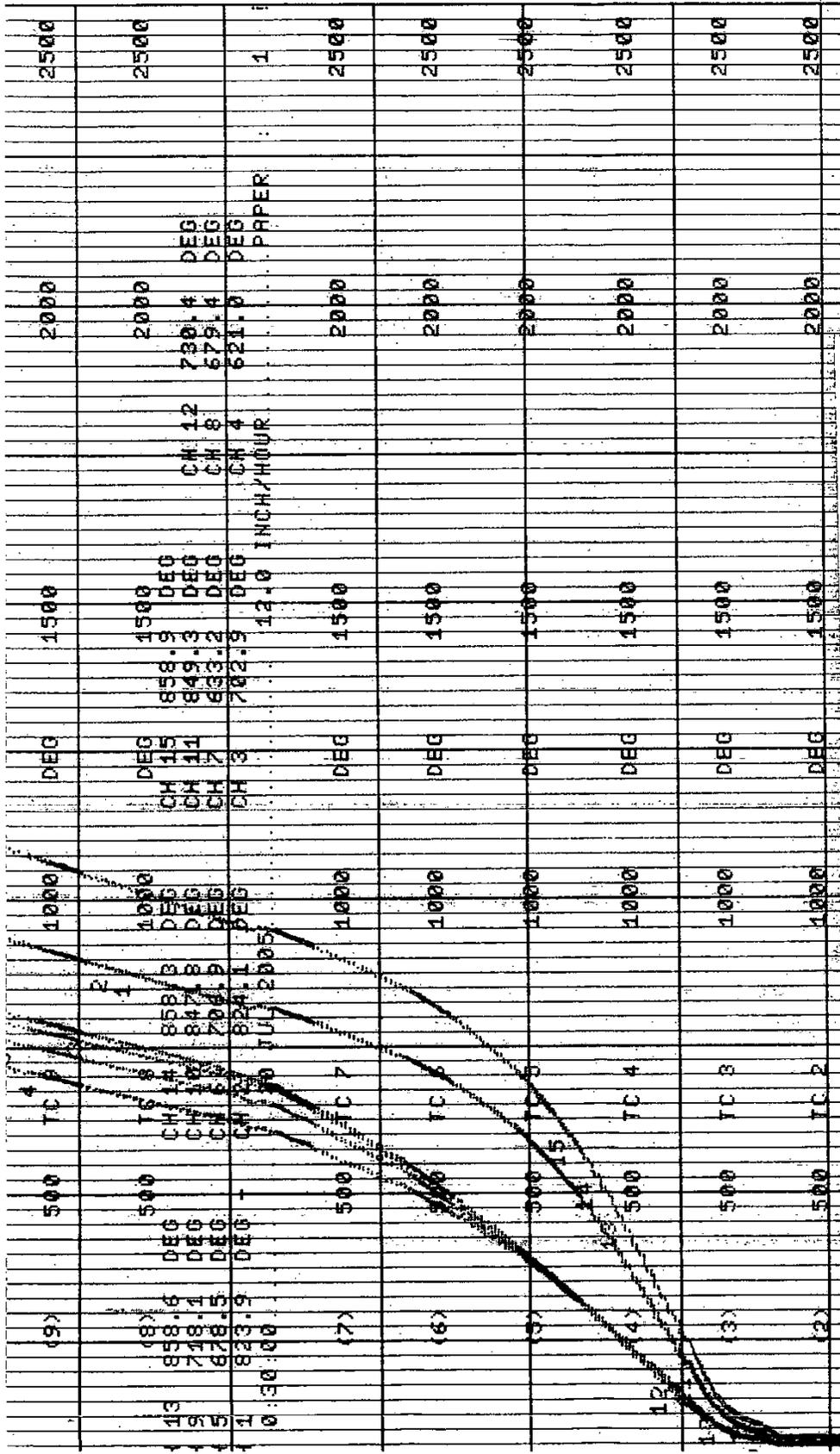
Sworn and subscribed to before me...

on 8-1-05 [Signature]
Notary Public Morgan County State of Indiana

My commission expires 9-30-09

[Signature]
(Name)

QA
(Title)



EXOTIC METAL TREATING, INC.
 6234 EAST HANNA AVENUE • INDIANAPOLIS, IN 46203

DATE: 7/30/05 COMPANY: MAJOR

LOAD #: 05-1396 MATERIAL: INL 60S

QTY: 5 P/N: 8F 130-003-1-10

PANEL 65678-6/5, 65678-26/5, 65678-6/6

65678-6/4 65678-26/7

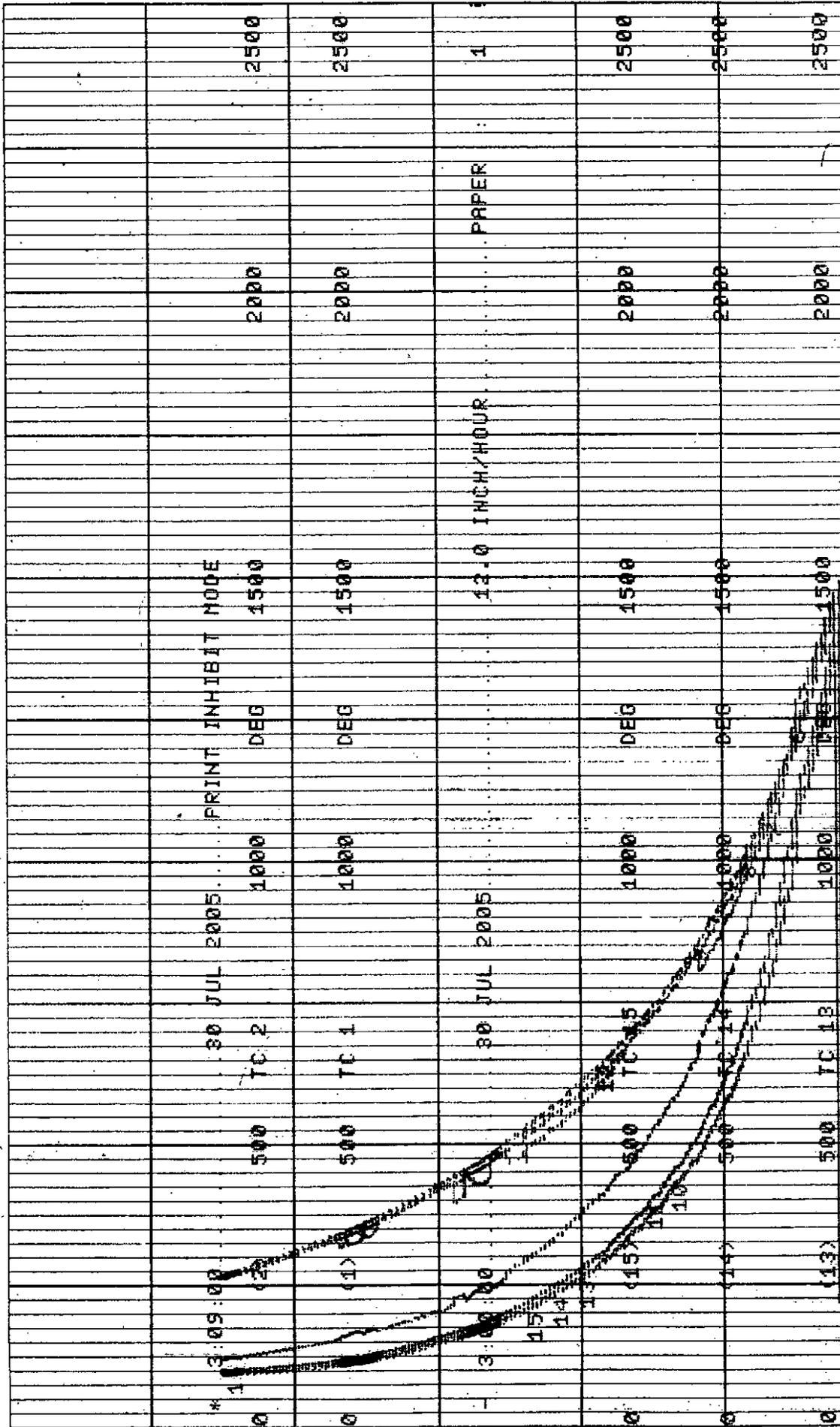
FURNACE: GF-1 ATMOS.: AIR

REF. SPEC.: AMS-2774 A

RECORDER: APR-01 TIME START: 12:07AM

PAPER

1





Certificate of Conformance

EXOTIC METAL TREATING INC.

Certificate # 50160

Vendor Code # 107576

6234 E. Hanna Avenue • Indianapolis, Indiana

P.O. # P05-03858, P05-04286, P05-04287

Exotic Metal Treating Inc. hereby certifies that all materials used in the manufacture of parts CONFORMS to the material and/or manufacturing specifications indicated in drawings or specifications as called for on purchase order referenced hereon. Test reports are on file with us or with our suppliers for examination and indicate conformance with the applicable requirements. The parts listed below are processed in accordance with the drawings or specifications called for on referenced purchase order that are current on the date on which the order was accepted. Pertinent details of the work performed are on file at this facility under the process heat number listed hereon.

HEAT # 05-1406

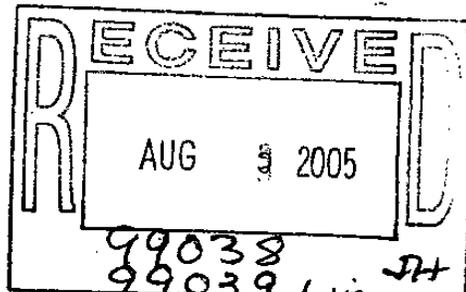
DATE SHIPPED 8-3-05

QUANTITY	DESCRIPTION
4 PCS	#SE120-003-1-10 JOB #65678-7/4, 65678-27/5, 65678-7/5, 65678-7/6 SEQ #30

MATERIAL: INCO 625

SOLUTION ANNEALED PER AMS-2774-A
1900°F ± 15°F FOR 45 MINUTES ± 5 MINUTES
& RAPID AIR COOLED.

AUG 03 2005



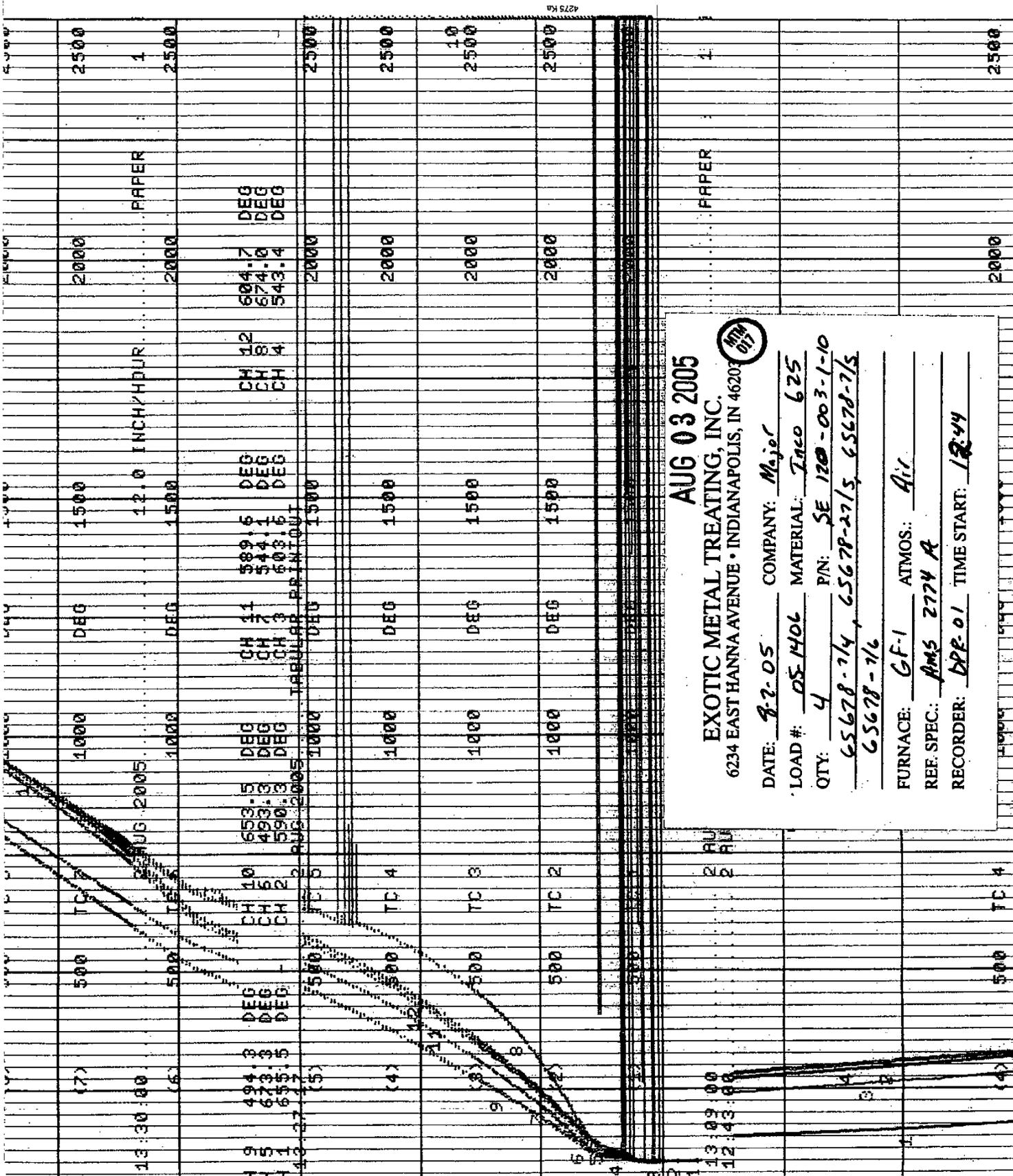
Sworn and subscribed to before me...

on 8-3-05
Notary Public Morgan County - State of Indiana

My commission expires 9-30-09

[Signature]
(Name)

[Signature]
(Title)



4275 KJ

AUG 03 2005

EXOTIC METAL TREATING, INC.
 6234 EAST HANNA AVENUE • INDIANAPOLIS, IN 46203

DATE: 8-2-05 COMPANY: Major

LOAD #: DFH06 MATERIAL: Ti60 625

QTY: 4 P/N: SE 120-003-1-10

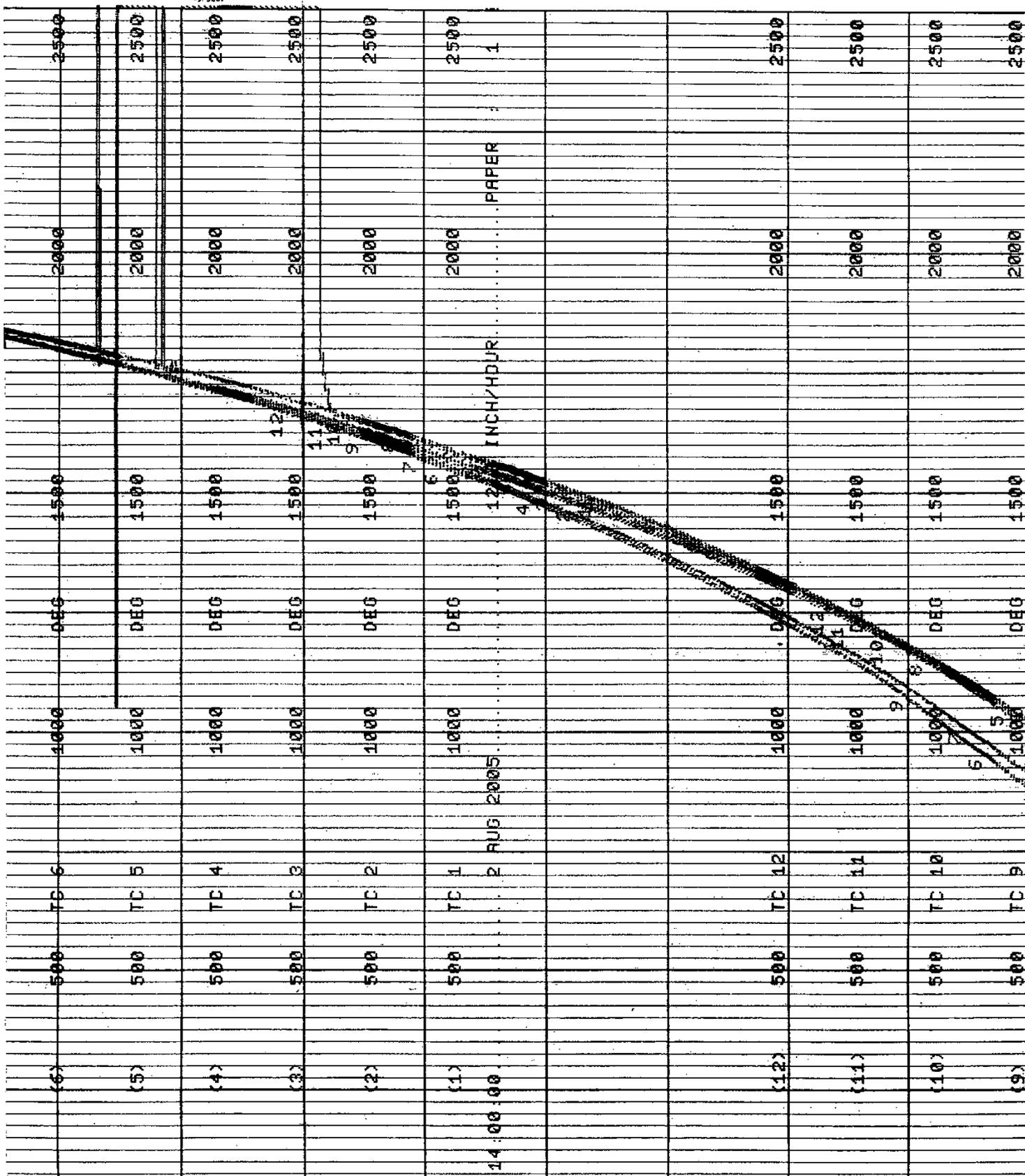
65678-7/4, 65678-27/5, 65678-7/5
65678-7/6

FURNACE: CF-1 ATMOS.: Arg

REF. SPEC.: AMS 2774 A

RECORDER: DPE-01 TIME START: 12:44

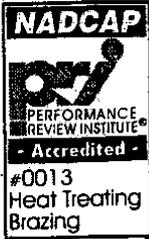
4276 KA



14:00:00 2 AUG 2005

INCH/HOUR PAPER 1

TIME	DATE	TIME	INCH/HDUR	DEG	INCH/HDUR	PAPER	TIME	
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(2)	TC 2	500	1500	DEG	1000	2000	2500	
(1)	TC 1	500	1500	DEG	1000	2000	2500	
(2)	TC 12	500	1500	DEG	1000	2000	2500	
(11)	TC 11	500	1500	DEG	1000	2000	2500	
1893	CH 10	DEG	1886	DEG	1893	1897	DEG	
1894	CH 11	DEG	1893	DEG	1894	1894	DEG	
1895	CH 12	DEG	1886	DEG	1895	1892	DEG	
14:35:53	CH 2	DEG	TABULAR PRINTOUT					
(10)	TC 10	500	1500	DEG	1000	2000	2500	
1882	CH 10	DEG	1879	DEG	1882	1877	DEG	
1882	CH 15	DEG	1880	DEG	1882	1883	DEG	
1881	CH 2	DEG	1871	DEG	1881	1876	DEG	
14:30:00	TC 2	500	12.0	INCH/HDUR	2 AUG 2005	PAPER	1	
(9)	TC 9	500	1500	DEG	1000	2000	2500	
(8)	TC 8	500	1500	DEG	1000	2000	2500	



Certificate of Conformance

EXOTIC METAL TREATING INC.

Certificate # 50132

Vendor Code # 107576

6234 E. Hanna Avenue • Indianapolis, Indiana

P.O. # P05-03911, P05-04056

Exotic Metal Treating Inc. hereby certifies that all materials used in the manufacture of parts **CONFORMS** to the material and/or manufacturing specifications indicated in drawings or specifications as called for on purchase order referenced hereon. Test reports are on file with us or with our suppliers for examination and indicate conformance with the applicable requirements. The parts listed below are processed in accordance with the drawings or specifications called for on referenced purchase order that are current on the date on which the order was accepted. Pertinent details of the work performed are on file at this facility under the process heat number listed hereon.

HEAT # 05-1377

DATE SHIPPED 7-27-05

QUANTITY

DESCRIPTION

4 PCS.

#SE120-003-1-10

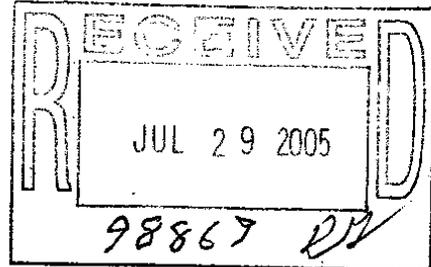
JOB #65678-10/4, 65678-8/5,

65678-28/5, 65678-8/6 SEQ #30

MATERIAL: INCO 625

SOLUTION ANNEALED PER AMS-2774-A
1900°F ± 15°F FOR 45 MINUTES ± 5 MINUTES
& RAPID AIR COOLED.

AUG 03 2005



Line 1

98870 RB

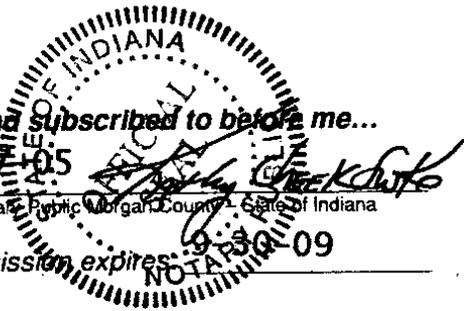
Line 1-3



Sworn and subscribed to before me...

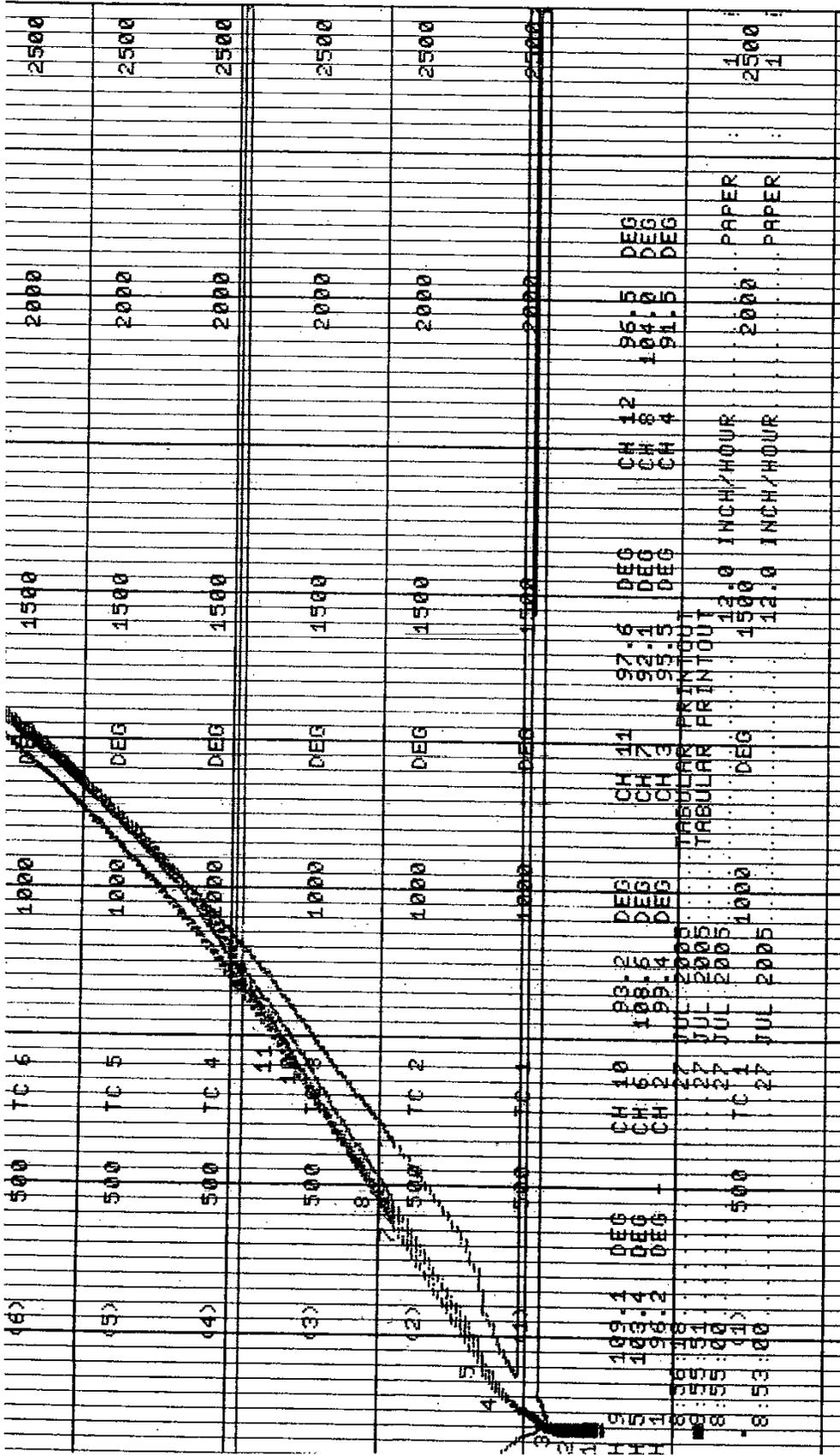
on 7-27-05
Notary Public Morgan County, State of Indiana

My commission expires 9-30-09



Kurt Shuck
(Name)

PA
(Title)



EXOTIC METAL TREATING, INC.
 6234 EAST HANNA AVENUE • INDIANAPOLIS, IN 46203
 DATE: 7-27-05 COMPANY: MAJOR TOOL
 LOAD #: 05-1377 MATERIAL: Alco 625
 QTY: 4 P/N: SE120-003-1-10
3PCS PANEL SEGMENTS #8
(10) " " # 10
 FURNACE: GF-1 ATMOS: AIR
 REF. SPEC.: AMS-2774 REV: A
 RECORDER: DPE-01 TIME START: 8:53AM

65678-10/4
 65678-8/5
 65678-28/5
 65678-8/6

14:00:04 27 JUL 2005 TRIBULAR PRINTOUT

(4)	500	TC 4	1000	DEC	1500	2000	2500
(3)	500	TC 3	1000	DEC	1500	2000	2500
(2)	500	TC 2	1000	DEC	1500	2000	2500
(1)	500	TC 1	1000	DEC	1500	2000	2500
(12)	500	TC 12	1000	DEC	1500	2000	2500
(11)	500	TC 11	1000	DEC	1500	2000	2500
(10)	500	TC 10	1000	DEC	1500	2000	2500
(9)	500	TC 9	1000	DEC	1500	2000	2500
(8)	500	TC 8	1000	DEC	1500	2000	2500

9:30:00 27 JUL 2005 12.0 IN/H/HOUR PAPER 1

4275 Ka

(2)	500	TC 2	1000	DEG	1500	12.0 INCH/HOUR	2000	2500	1
(1)	500	TC 1	1000	DEG	1500	12.0 INCH/HOUR	2000	2500	1
27 JUL 2005									
(12)	500	TC 12	1000	DEG	1500	12.0 INCH/HOUR	2000	2500	1
(11)	500	TC 11	1000	DEG	1500	12.0 INCH/HOUR	2000	2500	1
(10)	500	TC 10	1000	DEG	1500	12.0 INCH/HOUR	2000	2500	1
(9)	500	TC 9	1000	DEG	1500	12.0 INCH/HOUR	2000	2500	1
(8)	500	TC 8	1000	DEG	1500	12.0 INCH/HOUR	2000	2500	1
(7)	500	TC 7	1000	DEG	1500	12.0 INCH/HOUR	2000	2500	1
(6)	500	TC 6	1000	DEG	1500	12.0 INCH/HOUR	2000	2500	1
(5)	500	TC 5	1000	DEG	1500	12.0 INCH/HOUR	2000	2500	1

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PAPER



Certificate of Conformance

EXOTIC METAL TREATING INC.

Certificate # 50214

6234 E. Hanna Avenue • Indianapolis, Indiana

Vendor Code # 107576

P.O. # P05-04574, P05-04578

Exotic Metal Treating Inc. hereby certifies that all materials used in the manufacture of parts CONFORMS to the material and/or manufacturing specifications indicated in drawings or specifications as called for on purchase order referenced hereon. Test reports are on file with us or with our suppliers for examination and indicate conformance with the applicable requirements. The parts listed below are processed in accordance with the drawings or specifications called for on referenced purchase order that are current on the date on which the order was accepted. Pertinent details of the work performed are on file at this facility under the process heat number listed hereon.

HEAT # 05-1470

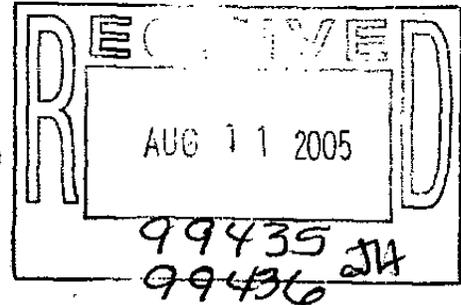
DATE SHIPPED 8-10-05

QUANTITY	DESCRIPTION
3 PCS	#SE120-003-1-10 JOB #65678-29/5, 65678-9/5, 65678-9/6 SEQ #30

MATERIAL: INCO 625

SOLUTION ANNEALED PER AMS-2774-A
1900°F ± 15°F FOR 45 MINUTES ± 5 MINUTES
& RAPID AIR COOLED.

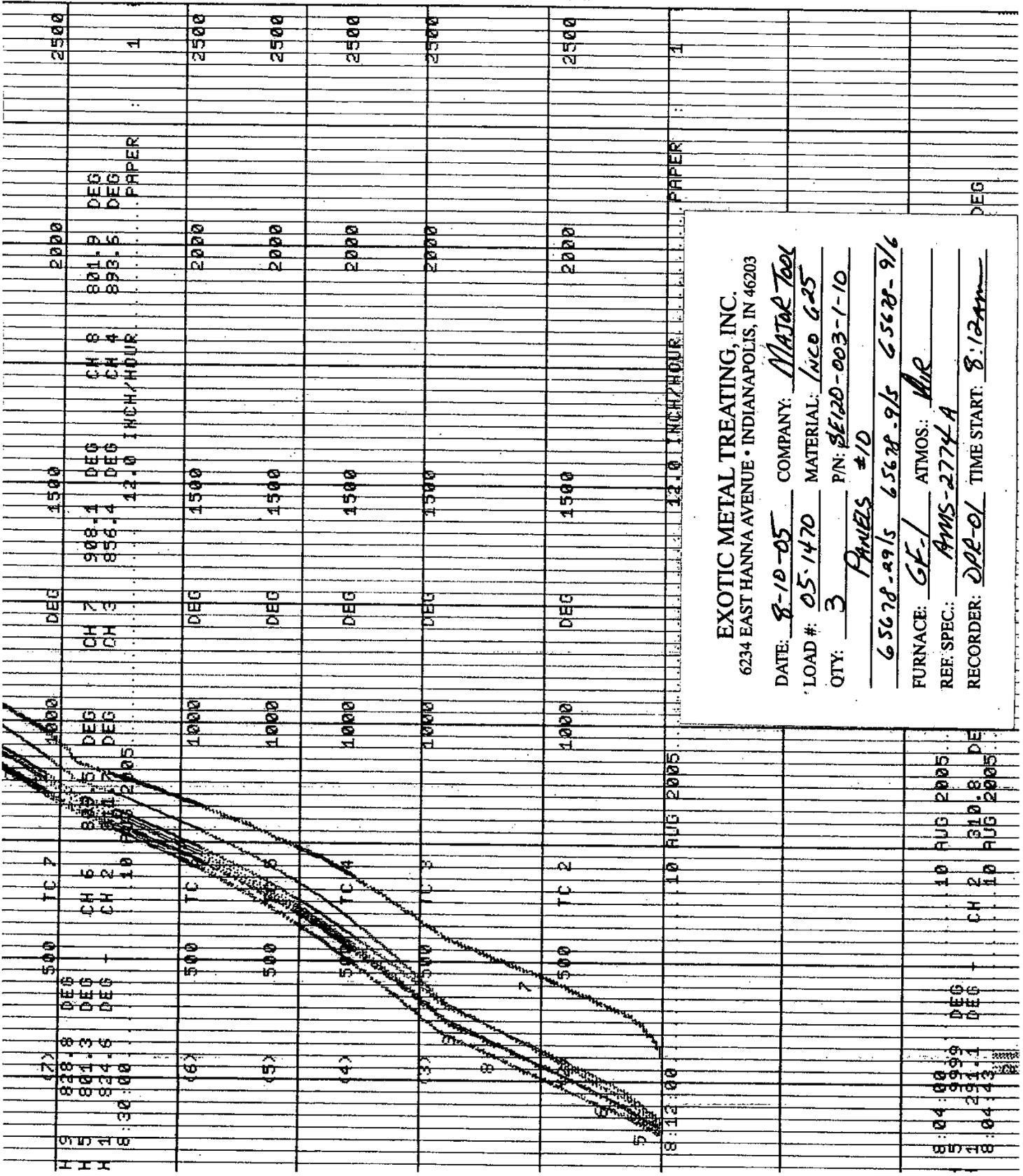
AUG 15 2005



Sworn and subscribed to before me...
 on 8-10-05
 Notary Public Morgan County State of Indiana
 My commission expires: 9-30-09

[Signature]
 (Name)
QA
 (Title)

4275 kg

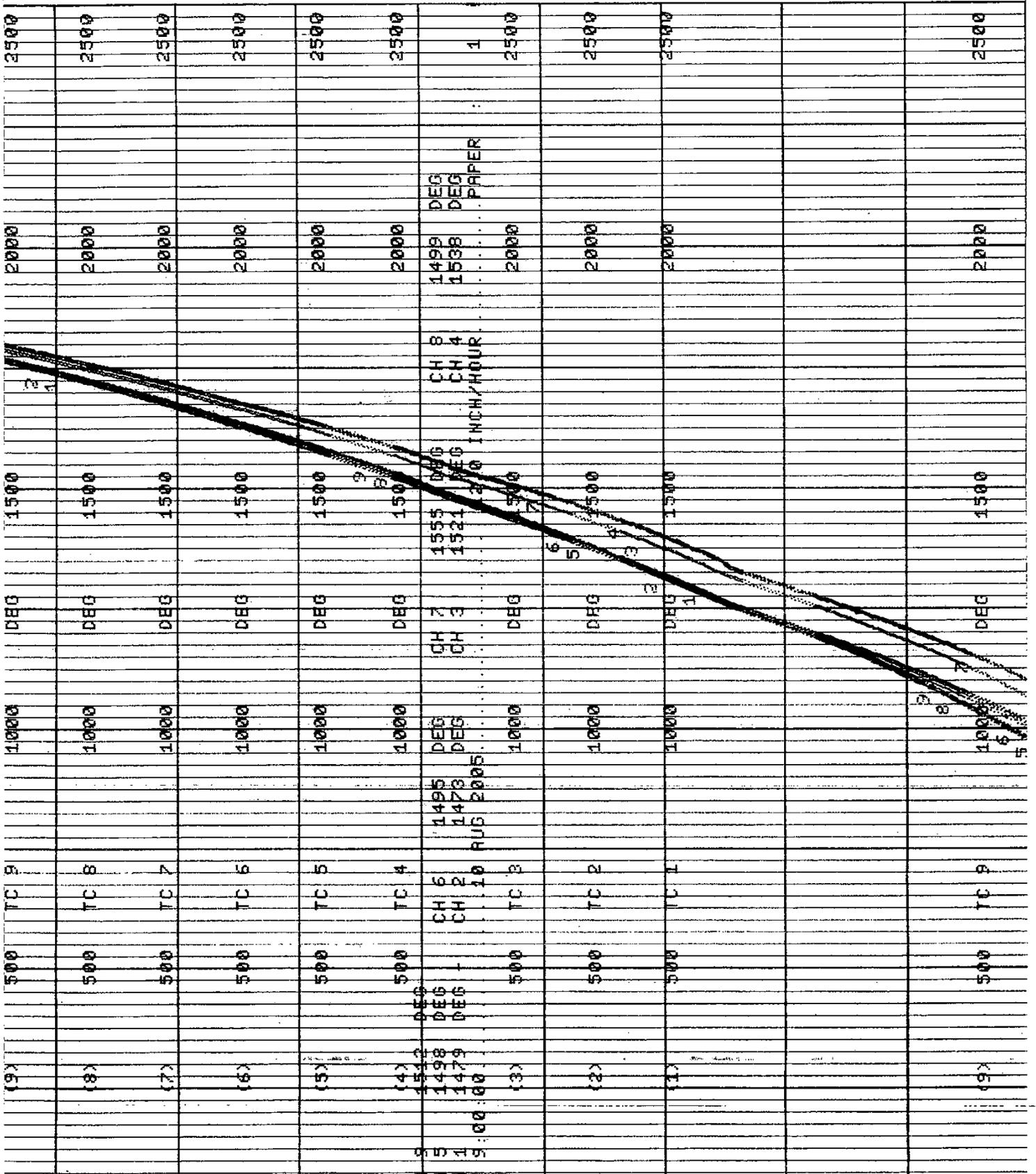


EXOTIC METAL TREATING, INC.
6234 EAST HANNA AVENUE • INDIANAPOLIS, IN 46203

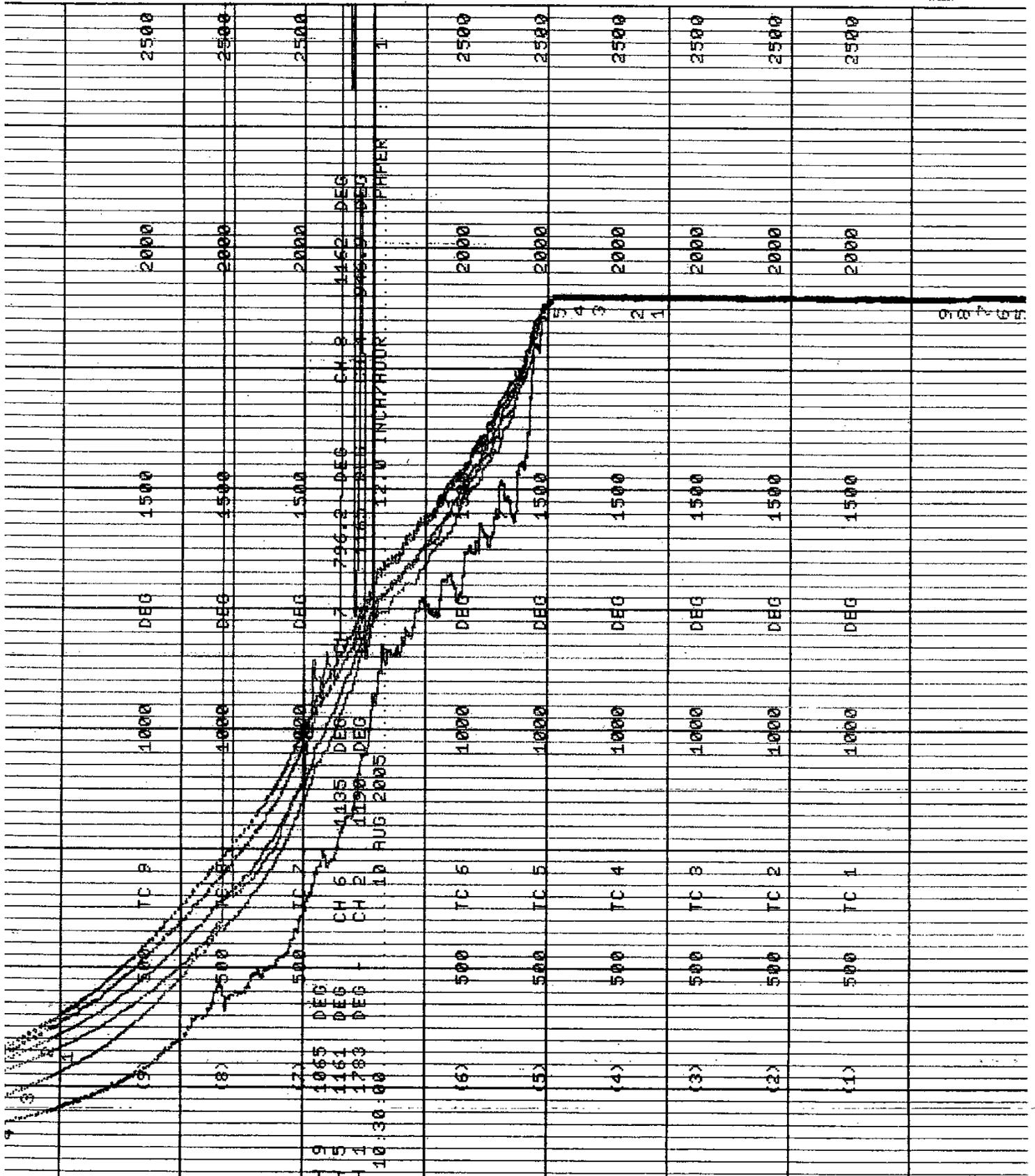
DATE: 8-10-05 COMPANY: MATOR TOOL
 LOAD #: 05-1470 MATERIAL: Inco G-25
 QTY: 3 P/N: SE120-003-1-10
65678-2915 PANELS #10 65678-916
 FURNACE: GF-1 ATMOS: AIR
 REF. SPEC.: AMS-2774A
 RECORDER: DPE-01 TIME START: 8:12am

8:04:00 DEG
 8:09:00 DEG
 8:14:00 DEG
 8:19:00 DEG
 8:24:00 DEG
 8:29:00 DEG
 8:34:00 DEG
 8:39:00 DEG
 8:44:00 DEG
 8:49:00 DEG
 8:54:00 DEG
 8:59:00 DEG
 9:04:00 DEG
 9:09:00 DEG
 9:14:00 DEG
 9:19:00 DEG
 9:24:00 DEG
 9:29:00 DEG
 9:34:00 DEG
 9:39:00 DEG
 9:44:00 DEG
 9:49:00 DEG
 9:54:00 DEG
 9:59:00 DEG
 10:04:00 DEG

4275 Ka



TIME	DATE	TIME	INCH/HOUR	PAPER	QUANTITY
10:00:00	10 AUG 2005		12.0	PAPER	1
(9)		TC 9	1500	DEG	2500
(8)		TC 8	1500	DEG	2500
(7)		TC 7	1500	DEG	2500
(6)		TC 6	1500	DEG	2500
(5)		TC 5	1500	DEG	2500
(4)		TC 4	1500	DEG	2500
(3)		TC 3	1500	DEG	2500
1889		CH 6			
1888		CH 5			
1886		CH 4			
1885		CH 3			
1884		CH 2			
1883		CH 1			
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1634		CH 0			
1633		CH 0			





Certificate of Conformance

EXOTIC METAL TREATING INC.

6234 E. Hanna Avenue • Indianapolis, Indiana

Certificate # 50171

Vendor Code # 107576

P.O. # P05-04379

Exotic Metal Treating Inc. hereby certifies that all materials used in the manufacture of parts **CONFORMS** to the material and/or manufacturing specifications indicated in drawings or specifications as called for on purchase order referenced hereon. Test reports are on file with us or with our suppliers for examination and indicate conformance with the applicable requirements. The parts listed below are processed in accordance with the drawings or specifications called for on referenced purchase order that are current on the date on which the order was accepted. Pertinent details of the work performed are on file at this facility under the process heat number listed hereon.

HEAT # 05-1426

DATE SHIPPED 8-4-05

QUANTITY

DESCRIPTION

3 PCS

#SE120-003-1-10

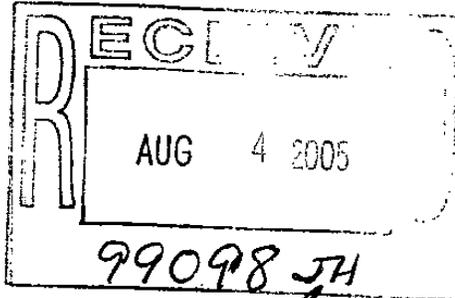
JOB #65678-10/5, 65678-30/5, 65678-10/6

SEQ #30

MATERIAL: INCO 625

SOLUTION ANNEALED PER AMS-2774-A
1900°F ± 15°F FOR 45 MINUTES ± 5 MINUTES
& RAPID AIR COOLED.

AUG 04 2005



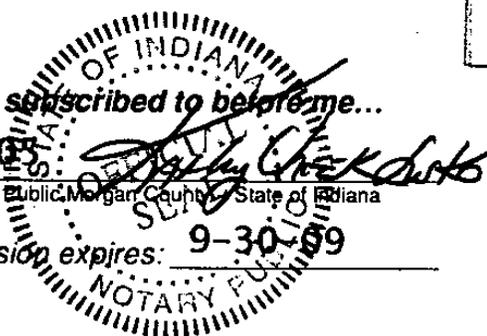
AUG 04 2005



Sworn and subscribed to before me...

on 8-4-05
Notary Public, Morgan County, State of Indiana

My commission expires: 9-30-09



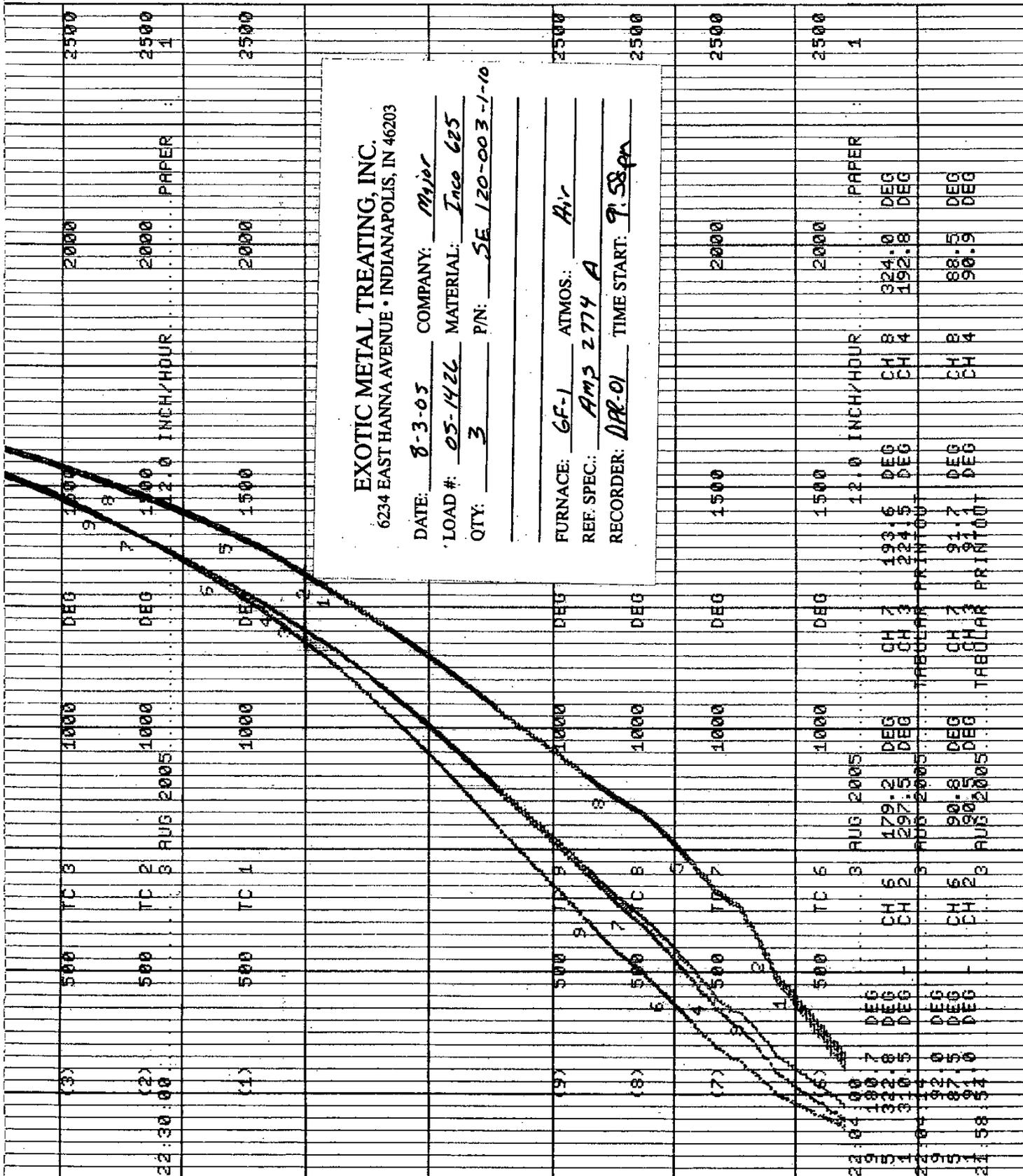
[Signature]
(Name)

SA
(Title)

4275 KA

EXOTIC METAL TREATING, INC.
 6234 EAST HANNA AVENUE • INDIANAPOLIS, IN 46203

DATE: 8-3-05 COMPANY: Major
 LOAD #: 05-1426 MATERIAL: Inco 625
 QTY: 3 P/N: SE 120-003-1-10
 FURNACE: 6F-1 ATMOS: Ar
 REF. SPEC.: AMP 2774 A
 RECORDER: DPR-01 TIME START: 9:58 pm



TC 3 500 1000 1500 2000 2500
 TC 2 500 1000 1500 2000 2500
 TC 1 500 1000 1500 2000 2500

DEG 9 8 7 6 5 4 3 2 1
 DEG 7 6 5 4 3 2 1
 DEG 5 4 3 2 1

12.0 INCH/HOUR
 CH 8 324.0 DEG
 CH 4 192.8 DEG

1931.6 DEG
 2241.5 DEG
 CH 7
 CH 3
 CH 8 88.5 DEG
 CH 4 90.9 DEG

3 AUG 2005
 179.2 DEG
 297.5 DEG
 CH 5
 CH 2
 CH 6 90.8 DEG
 CH 3 90.5 DEG

3 AUG 2005
 179.2 DEG
 297.5 DEG
 CH 5
 CH 2
 CH 6 90.8 DEG
 CH 3 90.5 DEG

3 AUG 2005
 179.2 DEG
 297.5 DEG
 CH 5
 CH 2
 CH 6 90.8 DEG
 CH 3 90.5 DEG

3 AUG 2005
 179.2 DEG
 297.5 DEG
 CH 5
 CH 2
 CH 6 90.8 DEG
 CH 3 90.5 DEG

3 AUG 2005
 179.2 DEG
 297.5 DEG
 CH 5
 CH 2
 CH 6 90.8 DEG
 CH 3 90.5 DEG

(3)	500	TC 3	1000	DEG	1500	2000	2500
(2)	500	TC 2	1000	DEG	1500	2000	2500
1898	DEG	CH 6	1898	DEG	1898	1898	DEG
1901	DEG	CH 2	1899	DEG	1897	1898	DEG
1898	DEG	CH 3	AUG 2005	TABULAR PRINTOUT	1897	1898	DEG
1898	DEG	CH 5	1894	DEG	1885	1899	DEG
1901	DEG	CH 2	1899	DEG	1895	1894	DEG
23:07:36	DEG	CH 3	AUG 2005	TABULAR PRINTOUT	1895	1894	DEG
(1)	500	TC 1	1000	DEG	1500	2000	2500
1818	DEG	CH 6	1806	DEG	1802	1820	DEG
1819	DEG	CH 2	1803	DEG	1795	1794	DEG
1800	DEG	CH 3	AUG 2005	12.0 INCH/HOUR	12.0 INCH/HOUR	12.0 INCH/HOUR	1
23:00:00	DEG	CH 3	AUG 2005	TABULAR PRINTOUT	12.0 INCH/HOUR	12.0 INCH/HOUR	1
(9)	500	TC 9	1000	DEG	1500	2000	2500
(8)	500	TC 8	1000	DEG	1500	2000	2500
(7)	500	TC 7	1000	DEG	1500	2000	2500
(6)	500	TC 6	1000	DEG	1500	2000	2500
(5)	500	TC 5	1000	DEG	1500	2000	2500

Page 5

0	(2)	500	TC 2	1000	DEG	1500	2000	2500
0	(1)	500	TC 1	1000	DEG	1500	2000	2500
0	(9)	500	TC 9	1000	DEG	1500	2000	2500
0	- 23:30:00		3	AUG 2005		12.0 INCH/HOUR	PAPER	1
0	(8)	500	TC 8	1000	DEG	1500	2000	2500
0	(7)	500	TC 7	1000	DEG	1500	2000	2500
0	(6)	500	TC 6	1000	DEG	1500	2000	2500
0	(5)	500	TC 5	1000	DEG	1500	2000	2500

4275 KA

ARCOS INDUSTRIES, LLC
ONE ARCOS DRIVE
Mt. Carmel, PA 17851

mc094944.pdf



DATE 11/26/03

CERTIFICATION OF TESTS

SOLD TO: MAJOR TOOL & MACHINE, INC.
 1458 EAST 19TH STREET
 INDIANAPOLIS, IN 46218

SHIP TO: SAME

ARCOS S.O.		CUSTOMER ORDER NO.		CONSIGNEE ORDER NO.		DATE SHIPPED	
79388		P03-04749		N/A		11/26/03	
ITEM	SIZE	GRADE		LOT NO./ALLOY NO.		QUANTITY	
1	1/16 X 36"	ARCOS 625		AB8051		30#	

SPECIFICATION: AWS A5.14/A5.14M-97. CLASS ERNiCrMo-3
 ASME SFA 5.14 ASME SECTION II, PART C, 2001 EDITION.
 AND ALL PARAS AND ADDENDA THRU 2002.

CHEMICAL ANALYSIS: WIRE									
C	Mn	Si	S	P	Cr	Ni	Mo	Cb	Cb + Ta
0.02	0.01	0.06	0.001	0.01	22.2	64.3	9.1		3.56
Ta	Ti	Al	Co	Cu	Fe	V	Total Others		
	0.22	0.12	0.03	0.01	0.4		< .50		

ADDITIONAL TEST RESULTS	Ferrite - NB2433.1-1:	_____	TENSILE	As Welded	Heat Treated
	Magna Gage:	_____	Yield	_____	_____
	X-Ray:	_____	Tensile	_____	_____
	Bends:	_____	Elongation	_____	_____
	Hardness:	_____	Red. of Area	_____	_____

OTHER INFORMATION:
 LOT CLASSIFICATION - S1
 INTENSITY OF TESTING - Schedule F

THIS MATERIAL IS FREE FROM MERCURY, RADIUM OR ALPHA PARTICLE CONTAMINATION.

We hereby affirm that the reported results on this certification are correct and accurate. All test and results and operations performed by Arcos or its subcontractors are in compliance with the applicable material/customer specification.

ARCOS

Eileen Zerby Q.A. CLERK
 QUALITY ASSURANCE DEPARTMENT

81505
 Line 1
 R. 7

12/5/03

ARCOS INDUSTRIES, LLC
ONE ARCOS DRIVE
Mt. Carmel, PA 17851

mc094944.pdf



DATE 11/26/03

CERTIFICATION OF TESTS

SOLD TO: MAJOR TOOL & MACHINE, INC.
 1458 EAST 19TH STREET
 INDIANAPOLIS, IN 46218

SHIP TO: SAME

ARCOS S.O.	CUSTOMER ORDER NO.	CONSIGNEE ORDER NO.	DATE SHIPPED
79388	F03-04749	N/A	11/26/03
ITEM	SIZE	GRADE	LOT NO./ALLOY NO.
1	1/16 X 36"	ARCOS 825	AB8051
			QUANTITY
			30#

SPECIFICATION: AWS A5.14/A5.14M-97. CLASS ERNiCrMo-3
 ASME SFA 5.14 ASME SECTION II, PART C, 2001 EDITION.
 AND ALL PARAS AND ADDENDA THRU 2002.

CHEMICAL ANALYSIS:		WIRE							
C	Mn	Si	S	P	Cr	Ni	Mo	Cb	Cb + Ta
0.02	0.01	0.06	0.001	0.01	22.2	64.3	9.1		3.56
Ta	Ti	Al	Co	Cu	Fe	V	Total Others		
	0.22	0.12	0.03	0.01	0.4		<.50		

ADDITIONAL TEST RESULTS	TENSILE	As Welded	Heat Treated
Ferrite - NB2433.1-1: _____	Yield	_____	_____
Magna Gage: _____	Tensile	_____	_____
X-Ray: _____	Elongation	_____	_____
Bends: _____	Red. of Area	_____	_____
Hardness: _____			

OTHER INFORMATION:

LOT CLASSIFICATION - S1
 INTENSITY OF TESTING - Schedule F

THIS MATERIAL IS FREE FROM MERCURY, RADIUM OR ALPHA PARTICLE CONTAMINATION.

We hereby affirm that the reported results on this certification are correct and accurate. All test and results and operations performed by Arcos or its subcontractors are in compliance with the applicable material/customer specification.

ARCOS

Eileen Zerby Q.A. CLERK
 QUALITY ASSURANCE DEPARTMENT

8/505
 Line 1
 R. 7

12/5/03

ARCOS INDUSTRIES, LLC
ONE ARCOS DRIVE
Mt. Carmel, PA 17851

mc095629.pdf



DATE 01/13/04

CERTIFICATION OF TESTS

SOLD TO: MAJOR TOOL & MACHINE, INC.
 1458 EAST 19TH STREET
 INDIANAPOLIS, IN 46218

SHIP TO: SAME

ARCOS S.O.		CUSTOMER ORDER NO.		CONSIGNEE ORDER NO.		DATE SHIPPED			
79698		P04-00127		N/A		1/13/04			
ITEM	SIZE	GRADE		LOT NO./ALLOY NO.		QUANTITY			
1	3/32 X 36"	ARCOS 625		CB7996		20#			
SPECIFICATION: AWS A5.14/A5.14M-97. CLASS ERNiCrMo-3 ASME SFA 5.14 ASME SECTION II, PART C, 2001 EDITION, AND ALL PARAS AND ADDENDA THRU 2003.									
CHEMICAL ANALYSIS: WIRE									
C	Mn	Si	S	P	Cr	Ni	Mo	Cb	Cb + Ta
0.04	0.03	0.08	0.004	0.01	21.9	64.9	8.7		3.64
Ta	Ti	Al	Co	Cu	Fe	V	Total Others		
	0.21	0.16	0.02	0.12	0.2		<.50		

ADDITIONAL TEST RESULTS

Ferrite - NB2433.1-1: _____

Magna Gage: _____

X-Ray: _____

Bends: _____

Hardness: _____

TENSILE As Welded Heat Treated

Yield _____

Tensile _____

Elongation _____

Red. of Area _____

OTHER INFORMATION:

LOT CLASSIFICATION - S1
 INTENSITY OF TESTING - Schedule F

2004

82372 Line 1
 D. J.

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ARCOS

1/29/04

Q.A. MANAGER
 QUALITY ASSURANCE DEPARTMENT

ARCOS INDUSTRIES, LLC
ONE ARCOS DRIVE
Mt. Carmel, PA 17851



DATE 01/08/04

CERTIFICATION OF TESTS

SOLD TO: MAJOR TOOL & MACHINE, INC.
 1458 EAST 19TH STREET
 INDIANAPOLIS, IN 46218

SHIP TO: SAME

ARCOS S.O.		CUSTOMER ORDER NO.		CONSIGNEE ORDER NO.		DATE SHIPPED			
79533		P03-05170		N/A		1/8/04			
ITEM	SIZE	GRADE		LOT NO./ALLOY NO.		QUANTITY			
1	3/32 X 36"	ARCOS	625	CB7996		20#			
SPECIFICATION: AWS A5.14/A5.14M-97. CLASS ERNiCrMo-3 ASME SFA 5.14 ASME SECTION II, PART C, 2001 EDITION, AND ALL PARAS AND ADDENDA THRU 2003.									
CHEMICAL ANALYSIS: WIRE									
C	Mn	Si	S	P	Cr	Ni	Mo	Cb	Cb + Ta
0.04	0.03	0.08	0.004	0.01	21.9	64.9	8.7		3.64
Ta	Ti	Al	Co	Cu	Fe	V	Total Others		
	0.21	0.16	0.02	0.12	0.2		<.50		

ADDITIONAL TEST RESULTS

Ferrite - NB2433.1-1: _____
 Magna Gage: _____
 X-Ray: _____
 Bends: _____
 Hardness: _____

TENSILE As Welded Heat Treated
 Yield _____
 Tensile _____
 Elongation _____
 Red. of Area _____

OTHER INFORMATION:

LOT CLASSIFICATION - S1
 INTENSITY OF TESTING - Schedule F

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ARCOS

Eileen Zerby Q.A. CLERK
QUALITY ASSURANCE DEPARTMENT

MTM 016
 1-23-04

JAN 14 2004
 82255
 line 2