

MATERIAL TRACEABILITY

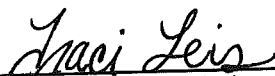
SALES ORDER NO. 509.3-4 DRWG. NO. 15773A

Nozzles:				
Purpose	Dia. or Size	Material	Nozzle Thk. Nom.	Trace Code
A VENT	1.315	SB-241-5083	0.133	T006C
A OUT	10.750	SB-241-5083	0.365	T096C
A IN	20.000	SB-209-5083	0.500	S477C
Headers:				
Purpose		Material	Nom. Thk.	Trace Code
A OUT & A VENT		SB-209-5083	0.375	S468C
A IN		SB-209-5083	0.500	S477C
End Pieces:				
Purpose	End Type	Material	Nom. Thk.	Trace Code
A OUT & A VENT	MITER	SB-209-5083	0.375	S468C
A IN	MITER	SB-209-5083	0.500	S477C
Permanent End Closures:				
Purpose	End Type	Material	Nom. Thk.	Trace Code
A IN	FLAT	SB-209-5083	1.000	S460C
A OUT	FLAT	SB-209-5083	0.750	S467C

THE MATERIAL CERTIFICATION USED IN THE FABRICATION OF THE CORE OF THE ABOVE ASSEMBLY CONTAINS RESTRICTED INFORMATION.

THEREFORE IT IS COMPANY CONFIDENTIAL, AND CANNOT BE DIVULGED TO THE CUSTOMER OR ANY THIRD PARTY.

ALL MATERIALS USED MEET THE SPECIFICATIONS AND THE MANUFACTURING CODE AS STATED ON THE DRAWING.



Traci A. Leis
Documentation Coordinator

03/24/04 16:01

9011441752733301

TW METALS

0003/003

M 83086851

ALUNNA AG

Velzener Weg 36 - 59425 Unna

Abnahmeprüfbescheinigung 3.1 B - EN 10204

Inspection Certificate 3.1 B - EN 10204 / Certificat de Reception 3.1 B - EN 10204

Kunde:
Client:Anvil Alloys International Ltd.
Anvil House, Vale Industrial Park
Tolpits Lane Watford WD1 6QP
Great Britain
Tubes seamless extruded

Zeugnisnummer:

Cert No. / No. du certificat:

12105

Bestellnummer:

Order No. / No. de commande

Auftrag:

1635/1

Our Reference/Notre Reference:

Produkt:

Product / Produit:

Spezifikation:

Specification:

Werkstoff:

Alloy/Alliage:

Abmessung

Size / Dimension

Kennzeichnung

Marking/Marquage:

Lieferung:

Delivered Material / Matériel délivré:

ASME SB 241

5083

33,400 mm x 26,640 mm x 3,360 mm x 6000,00 mm

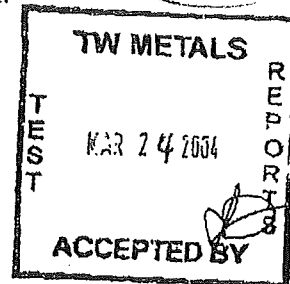
1" NB Sched. 40

Cast No. 8146 - 3 - 1" NB SCHED. 40 - 5083 - 0 - ASME SB 241 - AWU

Zustand:

Temper/Etat

0



1. Chemische Analyse Chemical Analysis / analyse chimique

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Zr	Bi	Sn	Ni
Charge/ min.				0,40	4,0	0,05							
Cast No. max.	0,40	0,40	0,10	1,0	4,9	0,25	0,25	0,15					
8146-3/02	0,233	0,286	0,060	0,552	4,710	0,082	0,080	0,025	0,005	0,0056	0,0002	0,0015	0,0030
Hydrogen content:	0,10	ccm/100 g Al											

Elemente ohne Angabe < 0,01 % / Elements without indication < 0,01 %

2. Mechanische Eigenschaften

Mechanical Properties / Valeurs Mécaniques

Anforderungen Requirements	tensile (Rm) Ksi	yield (Rp0,2) Ksi	elongation 2" %	elongation A 5 %	Hardness HB	
min.	39,0	16,0	14,0	12,0		
max.	51,0					
1	41,325	17,980	24,0	28,3	69,8	

Reviewed

TÜV Süddeutschland Bau und Betrieb GmbH

Notified body for pressure

Equipment Directive 97/23/EC

Testing Laboratory-

MAR 08 2005

AI-Reviewed

REVIEWED

JUN 11 2004

PEP OK

Ergebnis der
Prüfungen:Test results:
Results:

Es wird bestätigt, daß die Lieferung geprüft wurde und den Vereinbarungen bei der Bestellannahme entspricht

We confirm that the delivery has been tested and applies to the agreements made on receipt of the order
Nous confirmons que la livraison a été contrôlée et correspond avec les conventions faites à la réception de la commande

02.10.02

1 spots



Certified acc. to DIN EN ISO 9002, valid until 2003-02-03

12/19/21 6124267669

T.W. METALS

MAR-22-2004 12:55

08307484 10-11-04 484

SA TUBES LIMITED

Studley Road, Piddington, Worcester WR8 7HN, England
Telephone 01527 484500, Facsimile 01527 484501



Inspection Certificate

Customer Copy No. 9808511

Other Test Passed

7-096-C

PO 248359

ASME CERTIFICATE OF CONFORMITY

THIS MATERIAL HAS BEEN INSPECTED AND SAMPLED, TESTED AND INSPECTED AND MEETS THE REQUIREMENTS OF THE MATERIAL SPECIFICATION.

LA 27287

40-4-04

Your Order No : 13060
Your Part No : 10" NB SCHD 40
Our Order No : 881641
Packing Note No : 128660
Date : 17 Aug 2004
Packages : 3 BUNDLE

Specification
SA333
ASME B31.3

SEAMLESS DRAWN TUBE - 211.100MM OD X 9.270MM WT
Length - Random lengths

Heat or Exam No.	S	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Nb	Ti	H	CD	MOS
1K201	.15	.28	.02	.56	4.58	.12		.01	<0.0031	.02	14		
1K201	.15	.28	.02	.56	4.58	.12		.01	<0.0031	.02	14		
1K201	.15	.28	.02	.56	4.58	.12		.01	<0.0031	.02	14		
1K201	.15	.28	.02	.56	4.58	.12		.01	<0.0031	.02	14		
1K201	.15	.28	.02	.56	4.58	.12		.01	<0.0031	.02	14		

ALL
Reviewed
OCT 11 2004

Reviewed

TÜV Süddeutschland Bau und Betrieb GmbH

Notified Body No. 0043 to Pressure

Equipment Directive 97/23/EC

Testing Laboratory 10065009

TW METALS REPORT

TEST OCT 11 2004

ACCEPTED BY

(THIS CERTIFICATE CONFORMS TO THE REQUIREMENTS OF EN 10203.13)

SA TUBES LIMITED
Studley Road, Piddington, Worcester WR8 7HN, England
Telephone 01527 484500, Facsimile 01527 484501

JUL 1. 2004 7:16AM

COMMONWEALTH METAL

NO. 119

P. 3/3

commonwealth PD # M49103125

ELVAL

ATHENS - LAMIA NATIONAL ROAD (57th Km), 32011 INORTA VIOTIA, GREECE
TEL: +30 2620-32 269, 31503, 32 241

HELLENIC ALUMINIUM INDUSTRY S.A.

FAX: +30 2620-32 236, 32 237, TLX: +601-299327, 299324, 299325, 299326

Page 1

- MILL TEST CERTIFICATE -

Cert-No : 54989

DATE : 25/05/2004

Customer : COMMONWEALTH - 169
Order No : 0753
Your Ref. : 5523-06

Notes :

INVOICE NO: 4309
INTERNAL PACKING LIST NR: 80009082
PD M49103125
ACCORDING TO AA, ASTM B209, AMS-00A-250/G AND AMS 5209 SPECIFICATIONS.

TEST REPORT ACC TO EN 10204/3.1B

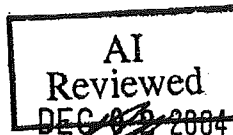
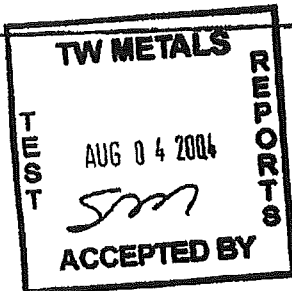
PRODUCTS LIST

OrdLine	Product Name	Alloy	Temper	Thickn /Step	Width	Length	Coil No	Si	Fe	Mn	Mg	Cu	Ti	Zn	Cr
ALUMINIUM SHEETS															
0076301		5083	-0-	9.5250	1524.00	3657.60	040267301	.11	.31	.43	4.30	.032	.006	.019	.180
			Inches :	.37500	60.000	144.000									
0076302		5083	-0-	12.7000	1524.00	3657.60	040453101	.12	.33	.55	4.54	.032	.013	.017	.118
			Inches :	.50000	60.000	144.000									

A. CHEMICAL ANALYSIS (%)

B. MECHANICAL PROPERTIES

Heat Nr	Coil No	Test No	Posit	RPM N/mm2	R02 N/mm2	ELONG %
04203000	040267301	2989	RL	313.0	190.2	15.8
			Kel :	45.389	27.581	
04201610	040453101	3943	RL	313.0	173.0	18.0
			Kel :	45.389	25.087	



Quality Control Department

P/R
B. KALANTZIS

Item # 11450 + 11452

REVIEWE

DEC 02 2004

Attn: Sue McD + Tom Crippen

Reviewed

TÜV SÜD - Gesellschaft für Produktprüfung GmbH

Notified body No. 0101 - Pressure

Equipment Directive 97/23/EC

Testing Laboratory-

MAR 8 2005

T.R

CERTIFIED INSPECTION REPORT

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any special conditions forming a part of this inspection report. The inspection was made at the place of manufacture of the material and had the mechanical properties shown on the face of this sheet.

Mark J. Vetter
 Mark J. Vetter
 Director of Manufacturing Development

Mark J. Vetter
 Director of Manufacturing Development

Alcoa Inc.

269660
 Ship Date
 2004-05-17
 P.O. No./Govt Contract No.
 M 49103129

132028
 B.L. No.
 31670
 Invoice No.
 39461

Alcoa No. 1111
 DS-7330-1111

PITTSBURGH, PA DAVENPORT WORKS
 Ship From: REVERDALE, LA.

Ship To: TW METALS
 14600 JAMES RD.
 ROGERS, MI 48574

Item Description
 .500 IN TH X 60.000 IN W X 144.000 IN LH (N) A/T 5083-
 O STORAGE TANK & CRYOGENIC PLATE MILL FINISH,
 SAWED ITEM 11450. PER ASME-SB-209 REV A99 & EXCEPT MARKING AMS-QQ-
 A-250/6 & EXCEPT MARKING ASTM A209 REV 02A &
 EXCEPT MARKING AMS4056 REV F DIMENSIONAL
 TOLERANCES F ANS H13.2 REV 2003
 ((MARKED)) PAPER INTERLEAVED
 SKID WGT: 6000 LB QUAN TOL +/-40
 QOR 0146716 REV 01 CUST REQ 04-05-
 07 *** W/B 04-05-08 ***

Item	Package Ticket	Lot	Weight	Quantity	UDH	Pc Id/Serl
1	773225	485709	6314	15	PC	
2	773258	485709	4636	11	PC	
			10950	26		

Notes for QOR: 0146716.1
 PRODUCT PRODUCED AND MARKED TO THE REQUIREMENTS OF AMS-QQ-A-250/6 ALSO MEETS THE REQUIREMENTS OF QQ-A-250/60. PRODUCT
 PRODUCED AND MARKED TO THE REQUIREMENTS OF QQ-A-250/66 ALSO MEETS THE REQUIREMENTS OF AMS-QQ-A-250/6.

QOR: 0146716.1 -Specification Limits

Temp	Dir	UTS		TYS		EL40		Chemical Composition										
		KSI	KSI	KSI	KSI	ECT		ST	FE	CU	NI	CR	ZN	TI	Other	Each	Total	Aluminum
		Max	Min	Max	Min													
0	Longitudinal	51.0	40.0	29.0	18.0	16		.40	.40	.10	1.0	4.9	.25	.25	.15	.95	.15	
																		REGDIN

Lot: 485739 -Mechanical, physical, Metallurgy, Quantometer Results

Reviewed

Temp	Dir	UTS	KSI	TS	EL40
0	Longitudinal	Max	44.5	24.1	22.1
		Min	43.5	24	

TÜV SÜD Deutschland Bau und Betrieb GmbH
 Notified body for Pressure

Equipment Directive 97/23/EC

-Testing Laboratory-

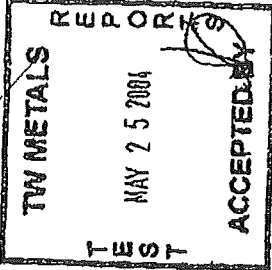
MAR 08 2005

49103129

TW METALS - SHIPPING

1.E. METALS

05/25/04 TUE 08:15 FAX 630
 MAY-18-2004 12:04



JAN 06 2005

per QIC

REVIEWED

JAN 06 2005

CERTIFIED INSPECTION REPORT

Alcoa Inc.

PITTSBURGH, PA DAVENPORT WORKS
Ship From: RIVERDALE, IA.

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet, the applicable requirements described therein, retaining any specifications forming a part of the description and that our inspection is representative of the material for the purposes stated and that the mechanical properties shown on the label of this sheet are the actual properties of the material.

Mark J. Vrabec
Director of Manufacturing Development Works

Kathleen P. Young
Kathleen P. Young
Quality Assurance Manager

269660
Ship Date
2004-05-17
P.O. No./Govt Contract No.
W 49103120

132028
B.L. No.
51670
Invoice No.
39481
Alcoa No. Item
DS-71930-1
Customer
TW METALS-ROGERS

Page 2

Lot: 485709 - Mechanical, Physical, Metallography, Quantometer Results (cont.)
Cast Number H2740014
Chemical SI PE CU MN MG CR 2H TI
Actuals .10 .22 .04 0.65 4.6 .09 .02 .02

S-477-C

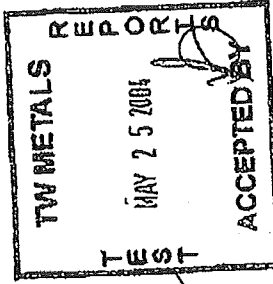
Reviewed

TÜV SÜD Deutschland Benning and Betrieb GmbH

Notified body for pressure equipment

Equipment Directive 97/23/EC

-Testing Laboratory-



REVIEWED

JAN 06 2005

T/R

004

P.01/17 6124287669

TW METALS - SHIPPING

05/25/04 TUE 08:15 FAX 630
MAY-18-2004 12:04 T.W. METALS

M 79107482 11/8/04 ew

5-460-0

COMMONWEALTH METAL

SEP. 30. 2004 8:50AM

<p>1, Zarvoldaya St. 347045 Delaya Kaliva Rostov region Russia</p>		<p>OAO «Delaya Kaliva Metallurgical Plant» INSPECTION CERTIFICATE EN 10204-3.1B</p>		<p>№ 6664 Date 20.08.04</p>																															
<p>CUSTOMER "Bural Trade Limited" Geneva Place, 2nd Floor #313 Waterfront Drive, P.O. Box 1139, Road Town Tortola, British Virgin Islands.</p>		<p>CONTRACT № 64354044166701062</p>		<p>APPENDIX № 12029</p>																															
<p>CONSIGNEE COMMONWEALTH METAL CORP P.O. Box 1426, 560 Sylvan Avenue, Englewood Cliffs, New Jersey 07632-3139, USA</p>		<p>Description of Goods Aluminum Planks Alloy and Temper 5083 O Lot № 12193 (1-4)</p>		<p>Standard ASTM B 209-02, ANSI-H35.2-2001, AMS-QQ-A-250/6 ASME SB-209 Dimension 1,000*60,000*144,000 Net Weight 1580 kg Ql. of packages pcs</p>																															
<p>MECHANICAL PROPERTIES</p> <table border="1"> <thead> <tr> <th>Units</th> <th>Ultimate Strength</th> <th>Yield Strength</th> <th>Elongation</th> </tr> </thead> <tbody> <tr> <td>KSI</td> <td>40</td> <td>KSI</td> <td>Elt %</td> </tr> <tr> <td>min</td> <td>40</td> <td>18</td> <td>16</td> </tr> <tr> <td>max</td> <td>51</td> <td>29</td> <td></td> </tr> <tr> <td>Test results</td> <td>45.2-45.4</td> <td>28.9-29.0</td> <td>18.8</td> </tr> </tbody> </table>		Units	Ultimate Strength	Yield Strength	Elongation	KSI	40	KSI	Elt %	min	40	18	16	max	51	29		Test results	45.2-45.4	28.9-29.0	18.8	<p>MAA00092-PO313-05/06/991674E2 Marking b-650*</p>		<p>AI Reviewed NOV 11 2004</p>											
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min	40	18	16																																
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Test results	45.2-45.4	28.9-29.0	18.8																																
<p>CHEMICAL COMPOSITION, %</p> <table border="1"> <thead> <tr> <th></th> <th>Si</th> <th>Fe</th> <th>Cu</th> <th>Mn</th> <th>Mg</th> <th>Cr</th> <th>Ni</th> <th>Zn</th> <th>Ti</th> </tr> </thead> <tbody> <tr> <td>Max</td> <td>0.40</td> <td>0.40</td> <td>0.10</td> <td>0.4</td> <td>4.0</td> <td>0.05</td> <td></td> <td>0.25</td> <td>0.15</td> </tr> <tr> <td>Test results</td> <td>0.18</td> <td>0.27</td> <td>0.038</td> <td>0.68</td> <td>4.57</td> <td>0.084</td> <td></td> <td>0.04</td> <td>0.043</td> </tr> </tbody> </table>							Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Max	0.40	0.40	0.10	0.4	4.0	0.05		0.25	0.15	Test results	0.18	0.27	0.038	0.68	4.57	0.084		0.04	0.043
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Test results	0.18	0.27	0.038	0.68	4.57	0.084		0.04	0.043																										
<p>IMPURITIES</p> <table border="1"> <thead> <tr> <th></th> <th>Batch</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Al</td> <td></td> <td></td> </tr> </tbody> </table>							Batch	Total	Al																										
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Quality Control Inspector

04/08/01

TW METALS

REPORTS

TEST
NOV 08 2004

ACCEPTED BY

REVIEWED

NOV 10 2004

Tw Metals GmbH

NOTED BODY NO. 10 b a. 10URE

Equipment Directive 97/23/EC

Testing Laboratory - NOV 08 2005

Alcoa

PITTSBURGH, PA DAVENPORT, KS
Ship From: RIVERDALE, IA.

Page 1

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet, the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

Kenton P. Young

Kenton P. Young
Quality Assurance Manager

Mark J. Vrabec
Director of Manufacturing Davenport Works

Ship To: TW METALS
7640 REINHOLD DRIVE
CINCINNATI, OH 45237

Item	Description
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.750 IN TK (+.0370 -.0370) X 60.000 IN W (+5/16 -
 0) X 144.000 IN LN (+1/2 -0) (N) A/T 5083 -
 O STORAGE TANK & CRYOGENIC PLATE MILL FINISH. SAWED
 SB-209 REV A99 & EXCEPT MARKING
 AMS-QQ-A-250/6 & EXCEPT MARKING ASTM B209 REV
 04 & EXCEPT MARKING AMS 4056 REV F
 DIMENSIONAL TOLERANCES F ANS H35.2 REV
 2003 ((MARKED)) STANARD INTERLEAVED
 SKID WGT: 6000 LB QUAN TOL +/-
 40 % CQR 0141846 REV 03 CUST REQ 04-09-
 20 *** W/E 04-10-02 ***

RECEIVED
FBI
JAN 22 1964

12/2/2006

Num	Package Ticket	Lot	Weight	Quantity	UOM	Pc Id/Serl
1	226752	649283	6073	10	PC	
2	226861	649283	4256	7	PC	
			10329	17		

Notes for CDR: 0141846.3
PRODUCT PRODUCED AND MARKED TO THE REQUIREMENTS OF AMS-QQ-A-250/6 ALSO MEETS THE REQUIREMENTS OF QQ-A-250/6G. PRODUCT PRODUCED AND MARKED TO THE REQUIREMENTS OF QQ-A-250/6G ALSO MEETS THE REQUIREMENTS OF AMS-QQ-A-250/6.

COR: 0141846.3 -Specification Limits

[illegible]

Lot: 649283 -Mechanical, Physical, Metallography, Environmental

TÜV SÜddeutschland Fern und Betrieb GmbH
Notdienst: 089 30 90 10 1000 oder 10 1000

Equipment Directive 97/23/EC

Testing Laboratory TAP 08 2015

REPORTS
TW METALS
NOV 01 2004
TESTED
ACCEPTED BY
gsm

Pr. 10 OK

CERTIFIED INSPECTION REPORT

Alcoa

PITTSBURGH, PA DAVENPORT V (S
Ship From: RIVERDALE, IA.

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet, the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

Per: *Mark J. Vrabec*

Mark J. Vrabec
Director of Manufacturing Davenport Works

Kenton P. Young

Kenton P. Young
Quality Assurance Manager

293992 303022
Ship Date B.L. No.
2004-10-30 62938
P.O. No./Govt Contract No. Customer
M 49110533 TW METALS-ROGERS

Invoice No. 68759
Alcoa No. Item DS-79049-1
Page 2

9-467-C

Lot: 649283 - Mechanical, Physical, Metallurgy, Quantometer Results (cont.)
Cast Number Chemical SI FE CU MN MG CR ZN TI
H2788045 Actuals .07 .21 .03 0.64 4.5 .08 .01 .01 .02

Reviewed

TUV SÜD - Technischer Betrieb GmbH

Normen: DIN 50901, 50902, 50903, 50904, 50905, 50906, 50907, 50908, 50909, 50910, 50911, 50912, 50913, 50914, 50915, 50916, 50917, 50918, 50919, 50920, 50921, 50922, 50923, 50924, 50925, 50926, 50927, 50928, 50929, 50930, 50931, 50932, 50933, 50934, 50935, 50936, 50937, 50938, 50939, 50940, 50941, 50942, 50943, 50944, 50945, 50946, 50947, 50948, 50949, 50950, 50951, 50952, 50953, 50954, 50955, 50956, 50957, 50958, 50959, 50960, 50961, 50962, 50963, 50964, 50965, 50966, 50967, 50968, 50969, 50970, 50971, 50972, 50973, 50974, 50975, 50976, 50977, 50978, 50979, 50980, 50981, 50982, 50983, 50984, 50985, 50986, 50987, 50988, 50989, 50990, 50991, 50992, 50993, 50994, 50995, 50996, 50997, 50998, 50999, 51000, 51001, 51002, 51003, 51004, 51005, 51006, 51007, 51008, 51009, 51010, 51011, 51012, 51013, 51014, 51015, 51016, 51017, 51018, 51019, 51020, 51021, 51022, 51023, 51024, 51025, 51026, 51027, 51028, 51029, 51030, 51031, 51032, 51033, 51034, 51035, 51036, 51037, 51038, 51039, 51040, 51041, 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