

CEOC

Confédération Européenne  
d'Organismes de Contrôle

Safety Assessment Federation

TÜV UK Ltd  
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Croydon CR9 1XZ  
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UK  
Member of TÜV Group

Prüf-Nr. - Inspection No.: 10026-11-SW

Certificat No. - No di collaudo:

12

Teil - Part - Parte - Parts:

Blatt-Nr - Sheet No. - Page No. - Pag No.: 1 of 1

Bestell-Nr. - Order No.:

No de la commande - No dell'ordine:

5RL414 Ps. 1

Vom - dated - -

date - in data:

13.01.05

Werks-Nr - Works No. - No usina - Commessa No.:

89736/1

## Abnahmeprüfzeugnis

Inspection Certificate

EN 10204:2004-3-2

Certificat de Réception

(EN 10204:1991-3.1C)

Certificato Collaudo Materiali

Besteller - Customer - Acheteur - Committente:

Linde AG

Verfahrenstechnik und Anlagenbau

Werk Schalchen, Carl Von Linde-strasse 15

83342 Tacherting, Germany

Hersteller - Manufacturer - Fabricant - Produttore:

B A Tubes

Studley Road, Redditch

Worcestershire, B98 7HN, England

Prüfgegenstand - Article - Produit - Prodotto: Seamless Aluminium Tube

Prüfgrundlagen/Anforderungen - Technical requirements/Demand - Spécifications techniques/Exigences - Norma di controllo/Requisiti:

AD 2000 - Merkblatt W6/1 (Einzelgutachten)

Werkstoff - Material - Matière - Materiale

entsprechend - according to suivant - secondo

Ausgabe Edition - Edizione:

EN AW-5083 -H112

EN573-3/754-2

1994/1997

SB 241 5083- H112

ASME

1996

Lieferzustand - State of delivery - Etat de livraison - Stato di fornitura: Soft Annealed

Erschmelzungsart - Melting process - Procédé d'élaboration - Procedimento di elaborazione: Electric.

Kennzeichnung - Marking - Marquage - Punzonatura:

Material: - ASME SB241 5083 - H112

EN AW 5083 -H112 Part no 17495, Cast No, Order No

Tube Nrs : 287651, 287653, 287655, 287657, 287659

287661

Herstellerzeichen - Brand of the manufacturer - BAT

Marque du fabricant - Marchio del produttore:

Stempel des Sachverständigen - Inspector's stamp  
Poinçon de l'expert - Punzone dell'ispettore.

T40

Pos.- Nr./Item No. Poste-No No. pos	Stückzahl Number of Quota Numero pezzi	Gegenstand - Article Désignation du produit - Tipo di prodotto	Schmelz-Nr. Heat No. No Caille No Colata	Probe-Nr. Test No. No d'éprouvette No di prova
01	04	324,00mm O/D. x 10.0mm WT x 3,500 mtrs	1L054	287651/652 (287651)
01	04	324,00mm O/D. x 10.0mm WT x 3,500 mtrs	1L054	287653/564 (287653)
01	04	324,00mm O/D. x 10.0mm WT x 3,500 mtrs	1L054	287655/656 (287655)
01	04	324,00mm O/D. x 10.0mm WT x 3,500 mtrs	1L054	287657/658 (287657)
01	04	324,00mm O/D. x 10.0mm WT x 3,500 mtrs	1L054	287659/660 (287659)
01	04	324,00mm O/D. x 10.0mm WT x 3,500 mtrs	1L054	287661/662 (287661)

Zusätzliche Angaben - Additional remarks - Autres remarques - Osservazione:

Die gestellten Anforderungen sind lt. Anlagen erfüllt.

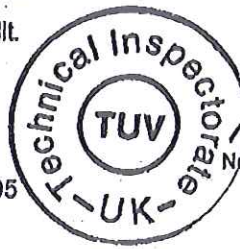
The requirements are fulfilled as per annex  
Les conditions imposées sont satisfaites suivant annexes -  
I risultati sono conformi ai requisiti richiesti come da allegati.

(Ort - Location - Lieu - Località)

LONDON

(Datum - Date - Data)

05/05/05

Prüfstelle für Druckgeräte  
Notified Body for Pressure Equipment  
S Worrall

TUV-UK DOC. No.:	FORM.: 0001	REV. No.:	3	DATE	04.11.04
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Requirements of ASME SECT. II

Edition 2004 Addenda

are fulfilled 2005-05-13 TUV-UK

**Ergebnis der Prüfungen**  
Test Results  
Résultats des Essais  
Risultati delle Prove

Anlage - Annex - Annexe - Allegato: 1  
Blatt-Nr. 1 of 1  
Sheet No.  
Page N°  
Pag N°

Prüf-Nr. 10026-11(SW)  
Inspection No.  
Certificat N°  
N° di collaudo

Teil  
Part  
Partie  
Parte

**Mechanische Prüfungen - Mechanical tests - Essais mécaniques - Prova meccaniche**

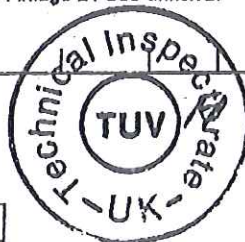
ZUGVERSUCH / TENSILE TEST											HARDNESS HB							
Prüft - Test type - Type d'essai - Tipo di prova: Probenart - Specimen size Type de l'éprouvette Tipo di provetta: Probenzustand - Specimen condition - Etat d'éprouvette - Stato della provetta:																		
Probe-Nr. Test No. N° d'éprouvette N° di prova.	Probenabmessung Dim. of specimen Dim. de l'éprouvette Dim. della provetta		Probenentnahme Specimen Prélevement Prelevamento			Prüftemperatur Test temperature Température d'essai Temperatura di prova  °C	Bruchtemperatur Fracture temperature Température de rupture Temperatura di rottura  °C	Zugfestigkeit Tensile strength Résistance à la traction Carico di rottura  N/mm²	Bruchdehnung Elongation Allongement Allungamento  A L <sub>0</sub> 5.65 √s <sub>0</sub> %	Bruchreduktion Reduction of area Réduction de section Riduzione  Z %	1 = [J] Schlagarbeit - Energy of impact Energie de rupture - Energia di rottura 2 = [J/cm²] Kerbschlagzähigkeit-Impact Strength Résistance - Resistenza 3 = [%] Krist.Bruchanteil - Cryst. proportion Partie cristalline - Proporzione cristallina 4 = [mm10 <sup>-3</sup> ] Breitung - Expansion 5 = [%] Elongement - Espansione 6 = Härte (Einheiten) - Hardness - Durezza  Werte -Values- Valeurs- Valori 1 2 3 4/5 6							Bemerkung Remarks Remarques Osservazioni
Schmelze-Nr. Heat No. N° Cuiée Colata N°	Dicke Thickness Épaisseur Spessore	Breite, Ø Width, Ø Largeur, Ø	Ort - Location Lieu - Zona	Richtung Direction - Senso	Lage - Position Posizione		0.2 N/mm²	RM N/mm²	5.65 √s <sub>0</sub> %	Z %	12	13	14	15	16	17		
Rechte / Anforderungen			1	2	3	20	min 130	min 270	min 14		6	≈ 65 HB						
% Max unless Stated S.10,40 Fe.0,40 Cu.0,10 Mn.0,40 to 1,00 Mg.4,0 to 4,9 Cr.0,05 to 0,25 Zn.0,25 Ti.0,15.																		
287651 (1L054)	10,07	12,00	1	2L	3	20	153	312	23		6	74	HB					
287652	10,13	12,04	1	2T	3	20	182	313	25		2							
287653 (1L054)	10,12	12,04	1	2L	3	20	155	312	23		6	77	HB					
287654	10,24	11,43	1	2T	3	20	185	314	22		2							
287655 (1L054)	9,87	11,84	1	2L	3	20	156	314	20		6	80	HB					
287656	9,56	12,11	1	2T	3	20	178	313	22		2							
287657 (1L054)	9,55	11,77	1	2L	3	20	158	323	22		6	81	HB					
287658	9,50	12,02	1	2T	3	20	184	322	23		2							
287659 (1L054)	10,18	11,95	1	2L	3	20	157	310	24		6	77	HB					
287660	10,03	11,77	1	2T	3	20	183	314	21		2							
287661 (1L054)	9,83	11,71	1	2L	3	20	151	309	23		6	74	HB					
287662	9,90	12,01	1	2T	3	20	183	314	24		2							
Notes			1) From tube end 2) L = Longitudinal / T = Transverse 3) Full Thickness 3° Mid Wall															
4) Besichtigung / Maßkontrolle / Visual and Dimensional check - ohne Beanstandung / Satisfactory 5) Chemische / Chemical Analysis: siehe Anlage 2 / See annex 2 6) Wärmebehandlung / Heat Treatment: Annealed at 400°C 7) Technological tests (ring tensile & macro) - ohne Beanstandung / Satisfactory 8) UST tested to SEP1915/1918 & ASTM B594 CLASS A siehe Anlage 2 / See annex 2: 9) Manufacturers 3.1. certificate shows in house tests only.																		

Ort - Location - Lieu - Località

LONDON

(Datum Date - Data)

09/05/05



Prüfstelle für Druckgeräte -  
Notified Body for Pressure Equipment  
S Worrall

TUV-UK DOC. No.:	FORM: 0001	REV. No.:	3	DATE:	05.11.04
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# BA TUBES LIMITED

Studley Road, Redditch, Worcestershire B98 7HN, England  
Telephone (01527) 484500, Facsimile (01527) 484501



## Inspection Certificate

Customer <b>LINDE AG</b> WERKSGRUPPE VERFAHRENSTECHNIK UND ANLAGENBAU, WERK SCHALCHEN CARL VON LINDE-STRASSE 15 83342 TACHERTING, GERMANY		Your Order No 5RL414 Your Part No 17495 Our Order No 89736/1 Packing Note No 134983 Date 29/04/05 Packages 1 CASE		Other Tests Passed RING TENSILE TEST ULTRASONIC TEST		No. 10272214																		
Size / Description SEAMLESS DRAWN TUBE 324.000MM O/D 10.000MM W/T 5083 Alloy Length - 3500.00 mm		Specification 5083 H112 ADW6/1 ASMESB241M EN573-3																						
No of Pieces	Nett Weight Kgs	Tensile Test			Brinell Hardness	Heat or Cast No	Chemical Analysis %								H cc/ 100 gm									
		Test No	0.2% Proof Stress N/mm <sup>2</sup>	Tensile Strength N/mm <sup>2</sup>				Si	Fe	Cu	Mn	Mg	Cr	Ni		Zn	Na	Ti						
4	364	287653 L	156	313	77	1054	.14	.26	.04	.60	4.57	.12					.03	<0.0001				.02		.11
		T	185	314	22																			
Remarks		TUV TEST CERTS TO EN 10204 3.1C. SODIUM LESS THAN 10PPM, HYDROGEN LESS THAN 0.2ML/100GMS												<div style="border: 1px solid black; padding: 5px; display: inline-block;"> Anlage 2 Page 1 of 7  Prüf Nr. 10026-11 (Sw) </div>										

*Handwritten signatures and stamps:*  
TUV  
10026-11 (Sw)  
Various initials and dates

*Signature:* R. Ae

For and on behalf of BA Tubes Limited 23/04/05  
Registered in England No. 3981365  
Registered Office: Victoria House,  
150-152 The Quays, Salford, M50 3SP, England.  
VAT Registration No. GB 898 2142 28

( THIS CERTIFICATE CONFORMS TO THE REQUIREMENTS OF EN 10204 3.1 Edition 2004 )

# BA TUBES LIMITED

Studley Road, Redditch, Worcestershire B98 7HN, England  
Telephone (01527) 484500, Facsimile (01527) 484501



## Inspection Certificate

Customer <b>LINDE AG</b> WERKSGRUPPE VERFAHRENSTECHNIK UND ANLAGENBAU, WERK SCHALCHEN CARL VON LINDE-STRASSE 15 83342 TACHERTING, GERMANY		Your Order No 5RL414 Your Part No 17495 Our Order No 89736/1 Packing Note No 134982 Date 29/04/05 Packages 1 CASE		Other Tests Passed RING TENSILE TEST ULTRASONIC TEST		No. 102721/1										
Size / Description SEAMLESS DRAWN TUBE 324.000MM O/D 10.000MM W/T 5083 Alloy Length - 3500.00 mm		Specification 5083 H112 ADW6/1 ASMESB241M EN573-3														
No of Pieces	Nett Weight Kgs	Tensile Test			Brinell Hardness	Chemical Analysis %								H cc/ 100 gm		
		Test No	0.2% Proof Stress N/mm <sup>2</sup>	Tensile Strength N/mm <sup>2</sup>		Heat or Cast No	Si	Fe	Cu	Mn	Mg	Cr	Ni		Zn	Na
4	364	287657 L	158	323	81	1L054	.14	.26	.04	.60	4.57	.12	.03	<0.0001	.02	.11
		T	185	322												

Anlage 2 Page 2 of 7  
Proj Nr. 10076-11 (SW)

Remarks TUV TEST CERTS TO EN 10204 3.1C.  
SODIUM LESS THAN 10PPM/HYDROGEN LESS THAN 0.2ML/100GMS

<p>Certified that the whole of the supplies detailed hereon have been inspected, tested and unless otherwise stated, conform in all respects with the requirements of the contract or order. The quality control applied in respect of these supplies are in accordance with the conditions of our BS EN 9101 registration.</p> <p>For and on behalf of BA Tubes Limited 29/04/05</p> <p><i>Rae</i></p> <p>Registered in England No. 3591363 Registered Office: Viscount House, 130-132 The Quays, Salford, M6Q 3BP, England. VAT Registration No. GB 956 2142 26</p>		<p>TUV UK Ltd</p> <p>Witnessed Date 3/5/05 Reviewed Date 3/5/05 Signature <i>[Signature]</i></p>	
( THIS CERTIFICATE CONFORMS TO THE REQUIREMENTS OF EN 10204 3.1 Edition 2004 )			



# Inspection Certificate

Customer

**LINDE AG**  
**WERKSGRUPPE VERFAHRENSTECHNIK UND**  
**ANLAGENBAU, WERK SCHALCHEN**  
**CARL VON LINDE-STRASSE 15**  
**33342 TACHTERTING, GERMANY**

Your Order No	5RL414
Your Part No	17495
Our Order No	89736/1
Packing Note No	134951
Date	29/04/05
Packages	1 CASE

Size / Description

SEAMLESS DRAWN TUBE 324.00MM O/D 10.00MM W/T 5083 Alloy  
length - 3500.00 mm

Specification  
5083 H112  
ADW61 ASMESB241M EN573-3

ADW6/1 ASMESB241M EN573-3																
No of Pieces	Nett Weight Kgs	Tensile Test			Brinell Hardness	Chemical Analysis %										H cc/ 100 gm
		Test No	0.2% Proof Stress N/mm <sup>2</sup>	Tensile Strength N/mm <sup>2</sup>		Heat or Cast No	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Na	
4	364	287651 L	153	312	74	1L054	.14	.26	.04	.60	4.57	.12	.03	<0.0001	.02	.11
		T	182	314												
Anlage 2 Page 3 of 7																
Prof Nr. 0026-1 (Sw)																
TUV TEST CERTS TO EN 10204 3.1C. SODIUM LESS THAN 10PPM HYDROGEN LESS THAN 10PPM																

Certified that the whole of the supplies detailed hereinafter have been inspected, tested and unions otherwise stated, conform in all respects with the requirements of the contract or order. The quality control adopted in respect of these supplies are in accordance with the conditions of our BS EN 9001 registration.

2

THY DUK

~~SECRET~~

## Review

## Sigmar

For and on behalf of EA Tubow Limited 22/04/15

Registered Office: Victoria House,  
150-152 The Quays, Salford, M50 3SP, England.  
/AT Registration No. GB 688 2142 28

( THIS CERTIFICATE CONFORMS TO THE REQUIREMENTS OF EN 10204 3.1 Edition 2004 )



Studley Road, Redditch, Worcestershire B98 7HN, England  
Telephone (01527) 484500, Facsimile (01527) 484501

# Inspection Certificate

Customer

**LINDE AG**  
**WERKSGRUPPE VERFAHRENSTECHNIK UND**  
**ANLAGENBAU, WERK SCHALCHEN**  
**CARL VON LINDE-STRASSE 15**  
**33342 TACHTERTING, GERMANY**

Your Order No	5RL414
Your Part No	17495
Our Order No	89736/1
Packing Note No	134980
Date	29/04/05
Packages	1 CASE

**Size / Description**  
SEAMLESS DRAWN TUBE 324.00MM O/D 10.000MM W/T 5083 Alloy  
length - 3500.00 mm

Specification  
5083 H112  
ADW6/1 ASMESB241M EN573-3

No. 102719/1

Other Tests Passed

RING TENSILE TEST  
ULTRASONIC TEST

ADW671 ASMESB241M EN573-3										Chemical Analysis %										H cc/ 100 gm
No of Pieces	Nett Weight Kgs	Tensile Test				Brinell Hardness	Chemical Analysis %										Ti			
		Test No	0.2% Proof Stress N/mm <sup>2</sup>	Tensile Strength N/mm <sup>2</sup>			Heat or Cast No	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Na				
4	384	287659 L T	158 184	310 314	24 21	77	1L054	.14	.26	.04	.60	4.57	.12		.03	<0.0001		.02	.11	
										Anlage 2 Page 4 of 7										
										Průf Nr. 10026-11 (S3)										
Remarks																				

Remarks	TUV TEST CERTS TO EN 10204 3.1C
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SODIUM LESS THAN 10PPM, HYDROGEN LESS THAN 0.2ML/100GMS

Certified that the whole of the supplies detailed hereon have been inspected, tested and unless otherwise stated, conform in all respects with the requirements of the contract or order. The quality control adopted in respect of these supplies are in accordance with the conditions of our BSSEN 9001 registration.

For and on behalf of EA Tubes Limited 24/04/05

Registered in England No. 3881385  
Registered Office: Victoria House,  
130-182 The Quays, Salford, England.  
VAT No. 780 000 742 00 00

( THIS CERTIFICATE CONFORMS TO THE REQUIREMENTS OF EN 10204 3.1 Edition 2004 )

TINY UK Ltd

Witnessed

## Reviewed

Signature



# BA TUBES LIMITED

Studley Road, Redditch, Worcestershire B98 7HN, England  
Telephone (01527) 484500, Facsimile (01527) 484501




## Inspection Certificate

Customer <b>LINDE AG</b> WERKSGRUPPE VERFAHRENSTECHNIK UND ANLAGENBAU, WERK SCHALCHEN CARL VON LINDE-STRASSE 15 83342 TACHERTING, GERMANY				Your Order No 5RL414 Your Part No 17495 Our Order No 89736/1 Packing Note No 134979 Date 29/04/05 Packages 1 CASE				Other Tests Passed RING TENSILE TEST ULTRASONIC TEST				No. 102718/1							
Size / Description SEAMLESS DRAWN TUBE 324.000MM O/D 10.000MM W/T 5083 Alloy Length - 3500.00 mm				Specification 5083 H112 ADWG/1 ASMESB241M EN573-3															
No of Pieces	Nett Weight Kgs	Test No	Tensile Test		Brinell Hardness	Heat or Cast No	Chemical Analysis %												
			0.2% Proof Stress N/mm <sup>2</sup>	Tensile Strength N/mm <sup>2</sup>			Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Na	Ti	H Co/ 100 gm		
4	364	287661 L T	151 184	310 315	74	1L054	.14	.26	.04	.60	4.57	.12				.03 ±0.0001		.02	.11

Anlage 2 Page 5 of 7  
Prüf Nr. 10026-11 (S)

Remarks TUV TEST CERTS TO EN 10204 3.1C.  
SODIUM LESS THAN 10PPM, HYDROGEN LESS THAN 0.2ML/100GMS

  
 Certified that the whole of the supplies detailed herein have been inspected, tested and unless otherwise stated, conform in all respects with the requirements of the contract or order. The quality control adopted in respect of these supplies are in accordance with the conditions of our BS EN 9001 registration.  
 Registered in England No. 3681365  
 Registered Office: Victoria House,  
 100-102 The Quay, Belford, MD9 3SP, England.  
 VAT Registration No. GB 696 2142 26  
 For and on behalf of BA Tubes Limited 29/04/05  
 TUV  
 Wittenberg  
 Date 31/5/05  
 Signature

( THIS CERTIFICATE CONFORMS TO THE REQUIREMENTS OF EN 10204 3.1 Edition 2004 )

# BA TUBES LIMITED

Studley Road, Redditch, Worcestershire B98 7HN, England  
Telephone (01527) 484500, Facsimile (01527) 484501



## Inspection Certificate

### Customer

LINDE AG  
WERKSGRUPPE VERFAHRENSTECHNIK UND  
ANLAGENBAU, WERK SCHALCHEN  
CARL VON LINDE-STRASSE 15  
83342 TACHERTING, GERMANY

Your Order No  
Your Part No  
Our Order No  
Packing Note No  
Date  
Packages

5RL414  
17495  
89736/1  
134978  
29/04/05  
1 CASE

Other Tests Passed  
RING TENSILE TEST  
ULTRASONIC TEST

No. 102717/K

Size / Description  
SEAMLESS DRAWN TUBE 324.000MM O/D 10.000MM W/T 5083 Alloy  
Length - 3500.00 mm

Specification  
5083 H112  
ADW6/1 ASMESB241M EN573-3

No of Pieces	Nett Weight Kgs	Tensile Test			Brinell Hardness	Chemical Analysis %											H cc/ 100 gm	
		Test No	0.2% Proof Stress N/mm <sup>2</sup>	Tensile Strength N/mm <sup>2</sup>		Heat or Cast No	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Na	Ti		
4	364	287655 L	156	314	80	1L054	.14	.26	.04	.60	4.57	.12		.03 <0.0001			.02	.11
		T	179	314														

Anlage 2 Page.....6.....bi.....7.....

Prüf N°.....10026-11 (S3).....

Remarks T1 / TEST CERT TO EN 10026-1

Anlage 2 Page... 6 of 7  
Prüf Nr... 10026-11 (S)

Remarks TUV TEST CERTS TO EN 10204 3.1C.  
SODIUM LESS THAN 10PPM, HYDROGEN LESS THAN 0.2ML/100GMS

Certified that the whole of the supplies detailed herein have been inspected, tested and unless otherwise stated, conform in all respects with the requirements of the contract or order. The quality control adopted in respect of these supplies are in accordance with the conditions of our BS EN 9001 registration.

*Signature*

For and on behalf of BA Tubes Limited 29/04/05  
Registered in England No. 3381365  
Registered Office: Victoria House,  
100-102 The Quays, Salford, M6Q 9SP, England.  
VAT Registration No. GB 998 2142 88

( THIS CERTIFICATE CONFORMS TO THE REQUIREMENTS OF EN 10204 3.1 Edition 2004 )

*Signature*  
Date 5/5/05  
Date 5/5/05





# Morgan-Ward

(NON-DESTRUCTIVE TESTING) LTD

DALE ROAD - NEW MILLS - HIGH PEAK - DERBYSHIRE - SK22 4NW

Tel: 01663 747061

Fax: 01663 746837

E-mail: admin@morganward.co.uk

APPROVALS

Civil Aviation Authority  
 Approved by the  
 P.A.B. (Cert. No. M01/01/01)  
 U.K.A.B.  
 British Aerospace  
 MoD  
 NAFAC



## ULTRASONIC TEST REPORT

Page 1 of 1

<b>CLIENT</b> BA Tubes Limited Studley Road Redditch Worcestershire B98 7HN		<b>REPORT No:</b> 61375/ULT	
		<b>DATE OF TEST:</b> Completed 25/4/05	
		<b>JOB No:</b>	
		<b>ORDER No:</b> RS991873	
<b>COMPONENT / AREA TESTED</b> Contact scanning of: 24 off 324mm dia. x 10mm w/t x 3.5 Metre long tubes. P/Nos: 5654 & 5656. Batch Nos. prefixed: 89736-1-1 - A, B, C & D. 1-2 - A, B, C & D. 1-3 - A, B, C & D. 1-4 - A, B, C & D. 1-5 - A, B, C & D. 1-6 - A, B, C & D.			
<b>MATERIAL</b> 5083	<b>SURFACE CONDITION</b> As drawn	<b>PROCEDURE / STANDARD</b> SEP1915/1918 ASTM B594 M-W Tech. 49487/ULT	<b>Issue No. / Date</b> 2/3 2004
<b>EQUIPMENT</b> K.K. USIP, Sonatest Masterscan.		<b>ACCEPTANCE CRITERIA</b> SEP1915/1918 ASTM B594	<b>Issue No. / Date</b> 2/3 2004
<b>SERIAL No.</b> UT 101, 3301183C.	<b>CALIBRATION DATE</b> 6/6/05	<b>TECHNIQUE NUMBER</b> 49487/ULT ( / ) 49601/ULT (Imm.) ( )	
<b>COUPLANT</b> Water	<b>TEST / REFERENCE BLOCKS</b> SEP1915/18/B B594/1	<b>SCANNING PATTERN</b> 50% probe overlap	
<b>PROBES USED</b>	0°	45°	45°
<b>MAKE &amp; TYPE</b>	Sonatest	Phoenix S/C	Phoenix S/C
<b>FREQUENCY</b>	5 MHz	4 MHz	4 MHz
<b>SIZE</b>	10mm dia.	10mm dia.	10mm dia.
<b>PROBE SERIAL No.</b>	339/17	A3845/A2443	A2444/2441
<b>SENSITIVITY SETTING</b>	66dB	22/26dB	22/26dB
<b>ATTENUATION / TRANSFER LOSS</b>	0dB	-	-
<b>TEST DETAILS &amp; RESULTS:</b> No rejectable indications detected. Items found to be acceptable to specification.			
<div style="border: 1px solid black; padding: 5px;"> Anlage-2 Page.....7.....of.....7.....  Prüf Nr.....10026-11 (Sw) </div>			
<b>TEST LOCATION</b> Morgan-Ward (NDT) Limited			
<b>OPERATOR:</b> G. Notman		<b>SIGNED:</b> AUTHORISED SIGNATORY FOR MORGAN-WARD (NDT) LTD. <b>NAME:</b> J. FRANCOMB <b>DATE:</b> 25/4/05	
<b>QUALIFICATION:</b> PCN LII			
<b>CERTIFICATE No:</b> 211187			