

United Performance Metals

*Philip Blair*  
Philip Blair  
Quality Technician

Customer Name: TW Metals UK  
Customer PO: B 30568001  
UPM Sales Order: 27587  
Date: 08/01/2019  
Description/Form: TITANIUM 6AL4V - SHEET  
Heat Number: 20142018  
Packing List Number: 59259-1  
Ingot: LOT 14032413

Width: 36.0000 Length: 96.0000  
Size: .0660  
Customer P/N:  
Quantity: 32 lb. 1 pc.

**BAOJI TITANIUM INDUSTRY CO., LTD**  [www.baoti.com](http://www.baoti.com)

## MATERIAL CERTIFICATION

NO: 2015035420309-1

DATE: Sep. 30, 2017

BAOTI's management system has been approved according to the requirement of AS9100, ISO9001, ISO14001 and OHSAS 18001

United Performance Metals

Unit 6a-e Ballyharry Business Park Donaghadee Road, Newtownards, County Down, Northern Ireland, BT23-7BG

PO NO.: 46000855

Commodity: TITANIUM SHEET

Specification: AMS 4911M/AMS-T-9046B AB-1/BS 3TA10:2009/ASTM B265-13a GR.5, 6Al-4V Finish: Annealed

Size[inch]	Heat No.	Quantity[pc]	Net Weight[kg]	Lot No.
0.056"×36"×96"	20142018	10	144	14032413

### Chemical Composition (WT. %)

Requirement	Ti	Al	V	Fe	C	N	O	Y	H
	Remainder	5.5~6.75	3.5~4.5	≤0.30	≤0.08	≤0.05	≤0.20	≤0.005	≤0.0125
Result	Top	Remainder	6.40	4.08	0.14	0.02	<0.01	0.11	<0.001
	Bottom	Remainder	6.43	4.19	0.14	0.02	<0.01	0.12	<0.001

### Tensile Test

Requirement	Tensile Strength [MPa]	Yield Strength [MPa]	Elongation [%]
	960MIN~1270MAX	900MIN	10MIN
Result	T	1092/1095	999/983
	L	1101/1108	1012/1053

### Other Test

Visual Inspection	Dimensional Inspection	Bend Test(105°/180°)
ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
Macro/Microstructure	Ultrasonic Inspection	Surface Contamination Test
ACCEPTABLE	ACCEPTABLE	ACCEPTABLE

I hereby certify this product conforms to all specifically listed technical requirements, and other requirements for these specifications. Furthermore, I certify the stated quantitative results above which were derived from testing and analysis, and be in accordance with the referenced specification requirements. No mercury contamination and radio-activity.

Note:

1. Hydrogen: Product analysis.
2. Residual element: each<0.10%; total<0.40%.
3. Heat treatment: 760°C/45'.
4. According to PCD ZJ/BBD200802 REV.1 & Bombardier QD 4.6-40 Issue 5.

TW METALS  
TEST CERTIFICATE CHECKED  
Sig. *OK*  
Date: 14-1-19

*BAOTI*  
QUALITY DEPARTMENT

Issued No.2010-6

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BAOJI TITANIUM INDUSTRY CO., LTD.  
NO.1 TIANCHENG ROAD, BAOJI, SHANXI, CHINA  
TEL: 86-311-3822018 FAX: 86-311-3822018



## Packing List

Packing List  
Cust/Ship to  
Shipment Dt  
VAT ID

59259-1  
4519/0  
08/01/2019  
GB 188 2846 16 VAT 20.0%



Ship-To  
TW Metals UK  
Majestic Road, Nureling Estate  
Nursling  
SOUTHAMPTON  
SO16 0AF

Issued from  
VAT: GB 978 305301, United Performance Metals  
Ballyharry Business Center, 6 Berkshire Road  
NEWTOWNARDS, BT23 7HH

Sold-To  
TW Metals UK, TW METALS UK  
Majestic Road, Nursling Industrial Estate  
Southampton, SO16 0AF

Divy Mthd	Prpd LTL	To Ref	Vehicle No
Carrier	DHLGLOBAL/27587		Trailer No
Item	Product		
Our Order	27587	Your PO Delivery	B 30566001 (04/01/2019) Prepaid
1-1	TITANIUM 6AL4V - SHEET 0.0660" Nom x 36" x 96" AMS 4911 / Mill - Baoji Titanium Industry		
	Van Tag ID	Heat 20142018	Tag 23617C
			Lift LW1-4334
			PCS 1

Shp MI  
1 0

Certificate  
Mill Cert

Total Packages for the Shipment

Package Type: Light weight Crate 43"x98"x9" (LW1-4334) 41.75

Gross  
41.75

Tare  
110

Net(LBS)  
31.75

Inside Slip  
Taken-by Slip

Shaw Stephens  
Mark Heatherley

(+ 44) 2891 817919  
(+ 44) 2891 817919

(+ 44) 2891 828194  
(+ 44) 2891 828194

These commodities, technology, or software are subject to the export controls administered by the United Kingdom and United States governments. Any export from these countries is in accordance with the applicable export regulations. Diversion contrary to U.K. and U.S. law is prohibited.

Mercury Exclusion: At no time during the handling or storage of this material at UPM was it near, or in contact with mercury. There is no mercury in the facility.

### Certificate of Conformance and Authenticity

The seller of this material hereby declares and certifies having previously approved exceptions, reservations, exemptions or as detailed within this document that the product supplied for the referenced purchase order conforms and complies with stated, as-ordered purchase order requirements inclusive of any and all drawings, specifications, regulatory, and statutory requirements.

Material is traceable to heat/lot number and grain direction orientation (if requirement is specified) through receipt from producer through delivery to purchaser. The product has been processed within the scope of our approved AS 9100/9120 and/or ISO 9001/14000 Quality Management System as applicable per the facility processing location. All distributor requirements of AMS4279 have been complied with.

All testing, inspection, and other essential supporting documents are retained on file. This material is free of weld repairs and has not come in contact with mercury or other low melting point alloys during storage or processing at our location.

The seller acknowledges that recording of false, fictitious, or fraudulent statement or data entries on documents is punishable as a felony under U.S. Federal and International statutes and laws. The certification data that we provide is data reported by the producing mill, supplier, and/or testing laboratory which represents the data in whole as supplied to us. We do not alter any material certification data in any manner.

The product being furnished is genuine, new, unused and is not defective, suspect, or counterfeit unless otherwise specified in writing herein; is suitable for the intended purposes; has not been provided under false pretenses; and has not been materially altered, damaged, deteriorated, or degraded. Please direct quality related inquiries to the Quality Department at the location from which the material shipped.

*Raymond Stator*  
Director of Quality

*Billie Blair*  
Quality Manager

*Mark Pinal*  
Quality Manager

Quality Solutions. Trusted Partners.

Copy Number 1

08/01/2019 13:17



**TW Metals Ltd  
Supplier Test  
Certificate  
Front Page**

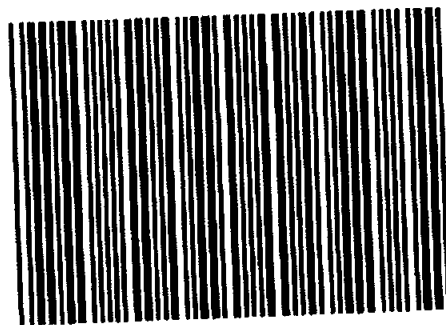
**PO No**

**30566001**

**0002**

**Batch**

**3025613**



**0002**

**30566001**

# DELIVERY NOTE

**TW METALS LTD**  
Majestic Road, Nursling Estate  
Southampton, SO16 0AF, UK  
Telephone +44 (0) 23 8073 9333  
Fax +44 (0) 23 8073 9601  
www.twmetals.co.uk

VAT REG NO : GB188 2846 16

PAGE 1 of 1

CARRIER		VEHICLE NO
OUR TRUCK		
INVOICE NO	DELIVERY REFERENCE	DATE
<b>30796519</b>	3011617/30796519	15-01-2019
CUSTOMERS REFERENCE		
CUSTOMER PO : CPE116288 CONTACT NAME : ANTHONY		
		

DELIVERY ADDRESS					TERMS AND CONDITIONS	
A J Walter Aviation Ltd The Headquarters Maydwell Avenue Slinfold West Sussex RH13 0AS TEL NO.: 01403-711777					THE SELLER SHALL NOT BE LIABLE IN RESPECT OF ANY CLAIM FOR SHORTAGES OR DAMAGE MADE MORE THAN FIVE DAYS AFTER DELIVERY.  CARRIAGE IS PRE-PAID AND CHARGED WHERE APPLICABLE  HEALTH AND SAFETY AT WORK GIVEN ON REQUEST	
PKGS	DESCRIPTION OF PACKAGES	LENGTH	WEIGHT	AREA	Customer Copy	
1	PALLET	2.5100 1.0600 .2200	40	OWN		
GOODS ARE ONLY CARRIED SUBJECT TO CONDITIONS OF CARRIAGE AVAILABLE ON REQUEST						
QUANTITY	UNITS	DESCRIPTION OF GOODS		PART NO	TARRIF CODE	
1.000	EA	AMS4911 6AL-4V Titanium Flat Sheet 0.056" THICK SHEET 2438.4 X 36" TO BE RATED				
Attached Documents C OF C Test Cert						

THESE GOODS ARE SUPPLIED IN ACCORDANCE WITH TW METALS STANDARD  
 TERMS AND CONDITIONS, A COPY OF WHICH IS AVAILABLE ON REQUEST.



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PRINT NAME

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Original Copy

15-01-2019

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Loaded By  
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