

MATERIAL CERTIFICATION

EN10204 TYPE3.1

MADE IN CHINA

CUSTOMER: BODYSTEEL and SILVER CO.,LTD

NO: JZ240503TH-REV1

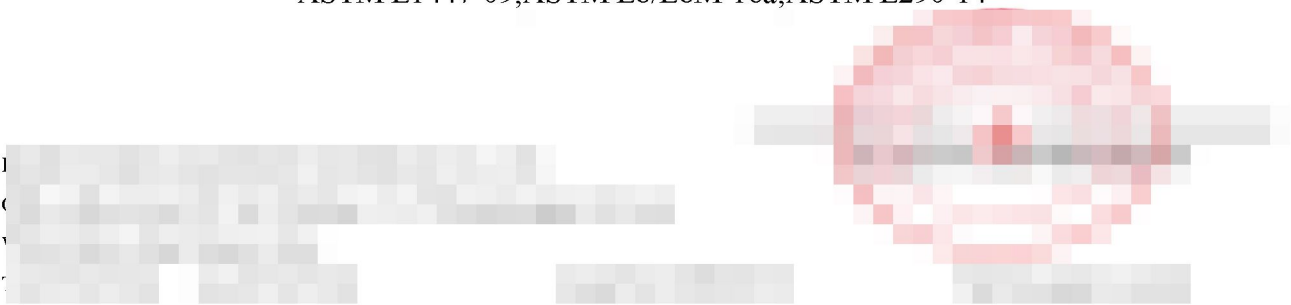
ORDER NO.: RM202405013

DATE:21-Jun-2024

Commodity: TITANIUM BAR							Finish: ANNEALED					
Specification: Ti-6Al-7Nb ASTM F1295-2011												
Size[mm]				Quantity[pc]			Net Weight[kg]			Heat No.		
DIA.3.0x3000				/			23.6			MTN220528		
Chemical Composition (wt.%)												
Requiremrnt		Ti	Al	Nb	Ta	Fe	C	N	O	H	Residual element	
		Remainder	5.50~6.50	6.50~7.50	≤0.5	≤0.25	≤0.08	≤0.05	≤0.20	≤0.009	≤0.1	≤0.40
Result	Top	Remainder	6.39	7.16	<0.01	0.15	0.011	0.004	0.142	0.0006	ok	ok
	Bottom	Remainder	6.38	7.15	<0.01	0.150	0.01	0.006	0.141	0.0007		
Requiremrnt		Tensile Strength R _m (Mpa)		Yield Strength R _p 0.2% (Mpa)			Elongation (%)		Reduct. Of area (%)			
		900MIN.		800MIN.			10MIN.		25MIN.			
Result		1060		831			18.0		42			
Visual Inspection						Dimensional Inspection						
ACCEPTABLE						ACCEPTABLE						
Macro/Microstructure			Ultrasonic Inspection(ASTM2631B Class A)						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 above stated quantitative results were derived from testing and analysis, and are in accordance with the referenced specification(s) requirements. No mercury contamination and radio-activity.

Note:
Test Method(s): ASTM E539-19;ASTM E2371-13; ASTM E1941-10; ASTM E1409-08;
ASTM E1447-09;ASTM E8/E8M-16a;ASTM E290-14



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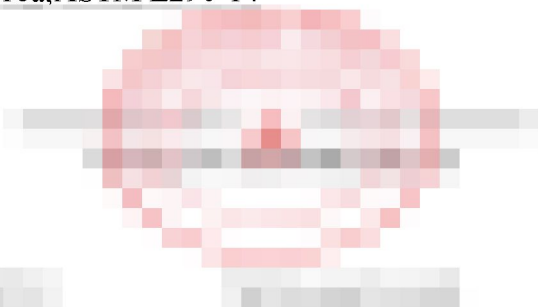
DATE:21-Jun-2024

Commodity: TITANIUM BAR							Finish: ANNEALED					
Specification: Ti-6Al-7Nb ASTM F1295-2011												
Size[mm]				Quantity[pc]			Net Weight[kg]			Heat No.		
DIA.2.5x3000				/			19.8			MTN220528		
Chemical Composition (wt.%)												
Requiremnt		Ti	Al	Nb	Ta	Fe	C	N	O	H	Residual element	
		Remainder	5.50~6.50	6.50~7.50	≤0.5	≤0.25	≤0.08	≤0.05	≤0.20	≤0.009	≤0.1	≤0.40
Result	Top	Remainder	6.39	7.16	<0.01	0.15	0.011	0.004	0.142	6E-04	ok	ok
	Bottom	Remainder	6.38	7.15	<0.01	0.150	0.01	0.006	0.141	7E-04		
Requiremnt		Tensile Strength R _m (Mpa)			Yield Strength R _p 0.2% (Mpa)			Elongation (%)		Reduct. Of area (%)		
		900MIN.			800MIN.			10MIN.		25MIN.		
Result		1091			848			17.0		44		
Visual Inspection					Dimensional Inspection							
ACCEPTABLE					ACCEPTABLE							
Macro/Microstructure			Ultrasonic Inspection(ASTM2631B Class A)						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 above stated quantitative results were derived from testing and analysis, and are in accordance with the referenced specification(s) requirements. No mercury contamination and radio-activity.

Note:

Test Method(s): ASTM E539-19;ASTM E2371-13; ASTM E1941-10; ASTM E1409-08;
ASTM E1447-09;ASTM E8/E8M-16a;ASTM E290-14



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EN10204 TYPE3.1

MADE IN CHINA

CUSTOMER: BODYSTEEL and SILVER CO.,LTD

NO: JZ240503TH-REV1

ORDER NO.: RM202405013

DATE:21-Jun-2024

Commodity: TITANIUM BAR							Finish: ANNEALED					
Specification: Ti-6Al-7Nb ASTM F1295-2011												
Size[mm]				Quantity[pc]			Net Weight[kg]			Heat No.		
DIA.4.0x3000				/			18.8			MTN220528		
Chemical Composition (wt.%)												
Requiremrnt		Ti	Al	Nb	Ta	Fe	C	N	O	H	Residual element	
		Remainder	5.50~6.50	6.50~7.50	≤0.5	≤0.25	≤0.08	≤0.05	≤0.20	≤0.009	≤0.1	≤0.40
			Remainder	6.39	7.16	<0.01	0.15	0.011	0.004	0.142	0.0006	ok
Result	Top	Remainder	6.39	7.16	<0.01	0.15	0.011	0.004	0.142	0.0006	ok	
	Bottom	Remainder	6.38	7.15	<0.01	0.150	0.01	0.006	0.141	0.0007		
Requiremrnt		Tensile Strength R _m (Mpa)		Yield Strength R _p 0.2% (Mpa)			Elongation (%)			Reduct. Of area (%)		
		900MIN.		800MIN.			10MIN.			25MIN.		
Result		1074		828			19.0			41		
Visual Inspection					Dimensional Inspection							
ACCEPTABLE					ACCEPTABLE							
Macro/Microstructure			Ultrasonic Inspection(ASTM2631B Class A)					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 above stated quantitative results were derived from testing and analysis, and are in accordance with the referenced specification(s) requirements. No mercury contamination and radio-activity.

Note:

Test Method(s): ASTM E539-19;ASTM E2371-13; ASTM E1941-10; ASTM E1409-08;
ASTM E1447-09;ASTM E8/E8M-16a;ASTM E290-14





Cert Number 22403-7 1/31/2024

BODYSTEEL AND SILVER CO., LTD.
63, MOO 5, SOI WAT BANG-CO,
YAEK RONG-FOAM, KANCHANAPHISEK ROAD
BANG MA-NANG, BANG YAI
NONTABURI, TA 11140
Thailand



Sold To: BODYSTEEL AND SILVER CO., LTD., 63, MOO 5, SOI WAT BANG-CO., YAEK RONG-FOAM, KANCHANAPHISEK ROAD, BANG MA-NANG, BANG YAI, NONTABURI, TA 11140, Thailand
Ship To: BODYSTEEL AND SILVER CO., LTD., 63, MOO 5, SOI WAT BANG-CO., YAEK RONG-FOAM, KANCHANAPHISEK ROAD, BANG MA-NANG, BANG YAI, NONTABURI, TA 11140, Thailand

		Reference	
Customer	525/0	Your Order	RM202302002 (2/15/2023)
Our Order	15717-1-1	Packing List	22403-1 (1/31/2024)
Product Information			
TITANIUM 6AL7NB ROUND BAR TO ASTM F1295 LATEST REV		Heat	1010202301-9863
4MM DIA X 3000MM L		Tag	18081A
h9 TOLERANCE, BRIGHT SURFACE		Pcs	300
Conform To ASTM F1295		KGS	50.8

Certificate of Conformance

1. All items furnished are in full compliance with purchase order and specification requirements listed, as documented on supplied Mill, Ingot or Lab Report.
2. The material supplied did not come in contact with Mercury or Mercury bearing instruments which are not shielded with a double barrier during processing at Titanium Industries.
3. No weld repair has been performed on this material during processing at Titanium Industries.
4. The Material supplied meets the visual and dimensional requirements of the Purchase Order
5. Raw Material / Product Certification with traceability to manufacturer(s) consisting of inspection test results as required, are included in this certification package.
6. Note: The recording of false, fictitious or fraudulent statements or entries on this document may be punished by law.





10/30/2023

Acc to EN10204.3.1

QUALITY CERTIFICATE OF TITANIUM PRODUCT

NO: WRTY20230619D1

合 同 号 Contract No	牌 号 Designation No	批 号 Heat No	状 态 Condition	规 格 Size	净 重 Net Weight	技 术 标 准 Specification								
9863TL	Ti6Al7Nb	1010202301	M	Φ4mm x 3000mm	112.9kg/664pcs	ASTM F1295-2016								
室温力学性能 Tensile Test	试样状态 Sample Condition	Rm Tensile Strength [MPa]	Rp0.2 Yield Strength 0.2% [MPa]	A(4D) Elongation [%]	Z Reduction Area[%]	α _k [J/cm ²]	HV [10/15]	弯曲实验 Bend Test	杯突值 IE Impact Strength [mm]					
	M	1018	865	16	47	/	/	/	/					
		/	/	/	/	/	/	/	/					
其它 Others	外行尺寸 Dimensional Inspection	表面质量 Visual Inspection	探伤检验 Ultrasonic Inspection	低倍组织 Macrostructure	高倍组织 Microstructure	水（汽）压实验 Hydraulic	压扁实验 Flattening	扩展实验 Flaring	展平实验 Fairing					
	Pass	Pass	Pass	Pass		/	/	/	/					
化学成分 Chemical Composition(%)														
Ti		Al	Nb	Fe	C	O	N	H	Ta	/	/	/	/	其它元素（Other）
Balance		6.24	6.98	0.165	0.010	0.105	0.005	0.004	<0.01	/	/	/	/	单个（Each）<0.10
		/	/	/	/	/	/	/	/	/	/	/	/	总和（Total）< 0.40
		/	/	/	/	/	/	/	/	/	/	/	/	/
备注 Note	Tolerance h9: +0/-0.030mm/Origin:China										检验专用章			
	Material free from mercury contamination and No Welding Repair.										(Stamp)			

批准(Approved by):

CERTIFICATE OF COMPLIANCE

CUSTOMER P.O#		DATE SHIPPED
TAI-9863-TL,		2023/6/27
GRADE/ALLOY :	TEMPER/COND.:	
6AL7NB	Annealed	
HEAT NO.:	SPECIFICATION:	
1010202301	ASTM F1295-2016	

ITEM DESCRIPTION:

Titanium round bar 6AL7NB per ASTM F1295 latest rev with h9 tolerance, bright surface.
Dia. 4.0mm x 3000mm (tolerance h9: +0/-0.030mm) N.W.: 112.9kgs

Note: Material free from mercury contamination and No Welding Repair.

SEE ATTACHED EN10204 3.1 CERTIFICATE

WE HEAREBY CERTIFY THAT ITEM(S) SHIPPED ON THIS ORDER HAVE BEEN INSPECTED AND TESTED AND FOUND IN CONFORMANCE WITH THE APPLICABLE SPECIFICATIONSAND INDICATED HEREIN.PRODUCT CONFORMS TO THE REQUIREMENTS OF THE PURCHASE ORDER.



Certificate of Conformance

Cert Number 23145-7

6/6/2024

BODYSTEEL AND SILVER CO., LTD.
63, MOO 5, SOI WAT BANG-CO,
YAEK RONG-FOAM, KANCHANAPHISEK ROAD
BANG MA-NANG, BANG YAI
NONTABURI, TA 11140
Thailand

Sold To: BODYSTEEL AND SILVER CO., LTD., 63, MOO 5, SOI WAT BANG-CO., YAEK RONG-FOAM, KANCHANAPHISEK ROAD, BANG MA-NANG, BANG YAI, NONTABURI, TA 11140, Thailand
Ship To: BODYSTEEL AND SILVER CO., LTD., 63, MOO 5, SOI WAT BANG-CO., YAEK RONG-FOAM, KANCHANAPHISEK ROAD, BANG MA-NANG, BANG YAI, NONTABURI, TA 11140, Thailand

Customer		Your Order		Reference		
Our Order		Packing List		RM202302002 (2/15/2023)		
525/0		15717-1-1		23145-1 (6/6/2024)		
TITANIUM 6AL7NB ROUND BAR TO ASTM F1295-16						Product Information
4MM DIA X 3000MM L						
h9 TOLERANCE, BRIGHT SURFACE						
Conform To ASTM F1295						
				Heat	Tag	Pcs
				1010202301-9863	18081	364
						KGS
						62.14

Certificate of Conformance

1. All items furnished are in full compliance with purchase order and specification requirements listed, as documented on supplied Mill, Ingot or Lab Report.
2. The material supplied did not come in contact with Mercury or Mercury bearing instruments which are not shielded with a double barrier during processing at Titanium Industries.
3. No weld repair has been performed on this material during processing at Titanium Industries.
4. The Material supplied meets the visual and dimensional requirements of the Purchase Order
5. Raw Material / Product Certification with traceability to manufacturer(s) consisting of inspection test results as required, are included in this certification package.
6. Note: The recording of false, fictitious or fraudulent statements or entries on this document may be punished by law.

6/6/2024

02:03 PM



1



10/30/2023

NO: WRTY20230619D1

Acc to EN10204.3.1

QUALITY CERTIFICATE OF TITANIUM PRODUCT

合同号 Contract No	牌 号 Designation No	批 号 Heat No		状 态 Condition		规 格 Size		净 重 Net Weight				技 术 标 准 Specification		
9863TL	Ti6Al7Nb	1010202301		M		Φ4mm x 3000mm		112.9kg/664pcs				ASTM F1295-2016		
力学性能 Tensile Test	试样状态 Sample Condition	Rm Tensile Strength [MPa]		Rp0.2 Yield Strength 0.2% [MPa]		A(4D) Elongation [%]		Z Reduction Area[%]		a _k [J/cm²]	HV [10/15]		弯曲实验 Bend Test	杯突值 IE Impact Strength [mm]
	M	1018		865		16		47		/	/		/	/
		/		/		/		/		/	/		/	/
其它 Others	外行尺寸 Dimensional Inspection	表面质量 Visual Inspection	探伤检验 Ultrasonic Inspection	低倍组织 Macrostruc ture	高倍组织 Microstructure		水（汽）压实验 Hydraulic		压扁实验 Flattening		扩展实验 Flaring		展平实验 Fairing	
	Pass	Pass	Pass	Pass			/		/		/		/	
化学成分 Chemical Composition(%)														
Ti		Al	Nb	Fe	C	O	N	H	Ta	/	/	/	/	其它元素（Other）
Balance		6.24	6.98	0.165	0.010	0.105	0.005	0.004	<0.01	/	/	/	/	单个（Each）<0.10
		/	/	/	/	/	/	/	/	/	/	/	/	总和（Total）< 0.40
		/	/	/	/	/	/	/	/	/	/	/	/	/
备注 Note	Tolerance h9: +0/-0.030mm/Origin:China Material free from mercury contamination and No Welding Repair.											检验专用章		

批准(Approved by):



SHANGHAI LANTING TITANIUM INDUSTRY CO., LTD
No. 10, Zhongyuan Road, Song Jiang District, Shanghai 201600, China



CERTIFICATE OF COMPLIANCE

SHANGHAI LANTING TITANIUM INDUSTRY CO., LTD
TITANIUM ROUND BAR
NO. 10, ZHONGYUAN ROAD, SONGJIANG DISTRICT, SHANGHAI 201600, CHINA
TEL: +86 21 5168 8888 FAX: +86 21 5168 8889

CUSTOMER P.O#	LANTING TITANIUM BAR	DATE SHIPPED
TAI-9863-TL,	TAI-9863	2023/6/27
GRADE/ALLOY :	TEMPER/COND.:	NO. OF PACKAGES
6AL7NB	Annealed	NO. OF TITANIUM BARS
HEAT NO.:	SPECIFICATION:	
1010202301	ASTM F1295-2016	

ITEM DESCRIPTION:

Titanium round bar 6AL7NB per ASTM F1295 latest rev with h9 tolerance, bright surface.
Dia. 4.0mm x 3000mm (tolerance h9: +0/-0.030mm) N.W.: 112.9kgs

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DATE: 2023.06.27

SHANGHAI LANTING TITANIUM INDUSTRY CO., LTD
NO. 10, ZHONGYUAN ROAD, SONGJIANG DISTRICT, SHANGHAI 201600, CHINA
TEL: +86 21 5168 8888 FAX: +86 21 5168 8889