

## Quality Certificate

No.: PO 2345289

### 1. Description:

Commodity		Material	Standard	Condition
Ti-6Al-4V ELI plate		Ti-6Al-4V ELI	ASTM F136-12	Annealed
No.	Heat No.	Lot No.	Size	Weight
1	1908-10E	TG190968	1.5x1000x2000mm	13.00Kgs
2	1903-40E-1	TG190524	2.0x1000x2000mm	17.50Kgs

### 2. Chemical Composition (Wt%):

Element	Ti	Al	V	Fe	C	N	O	H	Others		
									Each	Total	
Requirements (Max.)	Bal	5.5 - 6.5	3.5 - 4.5	0.25	0.08	0.05	0.13	0.012	0.10	0.40	
Results	1	Bal	5.99	4.33	0.039	0.008	0.010	0.042	0.010	<0.1	<0.4
		Bal	6.30	4.22	0.036	0.009	0.009	0.035	0.010	<0.1	<0.4
	2	Bal	6.19	4.28	0.035	0.008	0.008	0.040	0.0093	<0.1	<0.4
		Bal	6.17	4.21	0.031	0.008	0.006	0.049	0.0091	<0.1	<0.4

### 3. Mechanical Properties:

Test Items	Tensile Strength Rm [Mpa]	Yield Strength Rp0.2 [Mpa]	Elongation A [%]	Bent/105°	
					Requirements
Results	LT	983	1048	13	Qualified
	L	1055	1062	12	
	LT	966	1031	12.5	Qualified
	L	996	1004	10.5	

### 4. Other Test Items:

Microstructure	Ultrasonic Test	Dimensional Inspection	Visual Inspection	Surface Contamination
Qualified	Qualified	Qualified	Qualified	Clean

### 5. Conclusion and Statement:

We hereby certify that these Titanium Ti-6Al-4V ELI bars/rods herein has been manufactured,sampled,tested,and inspected in accordance with ASTM F136-12 and other specified requirements of PO 23345289, and met these requirements.

Inspected by	Prepared by	Approved by
T04	Xia He	T06
Apr.30 <sup>th</sup> , 2021.	Apr.30 <sup>th</sup> , 2021.	Apr.30 <sup>th</sup> , 2021.