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## Quality Certificate

No.: PO 2376782 - dia 2.5mm

PO 2378801 - dia 2.5mm

- dia 3.0mm

- dia 5.0mm

PO 2382144 - dia 2.5mm

PO 2385644 – dia 2.5mm

### 1. Description:

Commodity		Material	Standard	Condition
Ti-6Al-4V ELI Bar		Ti-6Al-4V ELI	ASTM F136	Annealed
Heat No.		Lot No.	Size	Weight
1	210895	210895-1	Ø2.5*2500mm	100Kgs
2	210895	210895-1	Ø3.0*2000mm	20Kgs
3	210895	210895-1	Ø5.0*2000mm	15.10Kg

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

Element	Ti	Al	V	Fe	C	N	O	H	Others	
									Each	Total
Req (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	Bal	6.26	4.26	0.022	0.005	0.003	0.113	0.0015	<0.1	<0.4

### 3. Mechanical Properties:

Test Items		Tensile Strength Rm [Mpa]	Yield Strength Rp0.2 [Mpa]	Elongation A [%]	Area of Reduction Z[%]
Requirements		≥860	≥795	≥10	≥25
Results	1	1181	970	17.5	---
	2	1012	968	18	---
	3	1010	932	19	38

### 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 and other specified requirements of PO 23767826 & 2378801 & 2382144 & 2385644, and met these requirements.

Inspected by	Prepared by	Approved by
Michelle Zhang	Jimmy Liu	Jianyin Xu
Apr.22 <sup>th</sup> , 2021.	Apr.22 <sup>th</sup> , 2021.	Apr.22 <sup>th</sup> , 2021.