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We erased their address from this document.

## Quality Certificate

No.: TG1900146a-dia 6.0mm

### 1. Description:

Commodity	Material	Standard	Condition
Ti-6Al-4V ELI Bar	Ti-6Al-4V ELI	ASTM F136	Annealed
Heat No.	Lot No.	Size	Weight
201810-072	19020301	Ø6.0mm L 2000-2500mm	1.20Kgs

### 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	6.32	4.14	0.166	0.017	0.034	0.105	0.001	<0.1	<0.4
	Bal	6.30	4.02	0.130	0.015	0.035	0.104	0.001	<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	905	823	19.0	48

### 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 contract number TG1900146a, and met these requirements.

Inspected by	Prepared by	Approved by
Michelle Zhang	Jimmy Liu	Jianyin Xu
Dec.16 <sup>th</sup> , 2019.	Dec.16 <sup>th</sup> , 2019.	Dec.16 <sup>th</sup> , 2019.

**END OF REPORT!**