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## QUALITY CERTIFICATE

No.: QC1800001a-dia9.00mm

### 1. Description:

Commodity	Material	Standard	Condition
Titanium Gr.5 ELI Bar	Ti-6Al-4V ELI	ASTM F136	Annealed
Heat No.	Lot No.	Size	Weight
170302	180115	Ø9.00*2000mm	15 pcs

### 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	0.2 5	0.08	0.05	0.13	0.012	0.10	0.40
Results	Ba;	5.94	3.97	0.1 2	0.018	0.004	0.057	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	37	880	18.0	47

### 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 Grade 23 bars/rods herein has been manufactured, sampled, tested, and inspected in accordance with ASTM F136 and other specified requirements of contract number TG1800001a, and met these requirements.

Inspected by	Prepared by	Approved by
Michelle Zhang	Jimmy Liu	Andrew Wang
Jan.15 <sup>th</sup> , 2018.	Jan.15 <sup>th</sup> , 2018.	Jan.15 <sup>th</sup> 2018.

**END OF REPORT!**