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**QUALITY CERTIFICATE**

No.: TG1700040a-dia 0.8mm

1. Description:

Commodity	Material	Standard	Condition
Ti-6Al-4V ELI wire	Ti-6Al-4V ELI	ASTM F136	Annealed
Heat NO.	Lot No.	Size	Weight
MT16918	1705311	dia 0.8mm	5.80Kgs

2. Chemical composition (wt%) :

Element	Ti	N	C	H	Fe	O	Al	V
Requirements (max.)	Bal	0.05	0.08	0.012	0.25	0.13	5.5-6.5	3.5-4.5
Results	top	Bal	0.004	0.01	0.0011	0.13	6.06	4.15
	bottom	Bal	/	/	/	0.13	5.99	4.13

3. Mechanical properties:

Test Items	Tensile strength Rm (MPa)	Yield strength Rp0.2 (MPa)	Elongations (%)
Requirements	>=860	>=795	>=10
Results	1030	805	10.5

4. Other test items:

Microstructure	Ultrasonic	Dimensional Inspection	Visual Inspection	Surface contamination
Qualified	Qualified	Qualified	Qualified	Clean

5. Conclusion and Statement:

We hereby certify that these Titanium wire Ti-6Al-4V ELI herein has been manufactured, samples, tested and inspected in accordance with ASTM F136 and other specified requirements of contract number TG1700040a, and met these requirements.

Inspected by	Prepared by	Approved by
Michele Zhang	Jimmy Liu	Andrew Wang
Jun.1 <sup>st</sup> , 2017.	Jun.1 <sup>st</sup> , 2017.	Jun.1 <sup>st</sup> , 2017.