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QUALITY CERTIFICATE

No.: TG1700061a-dia 10.0x2000mm

1. Description:

Commodity	Material	Standard	Condition
Ti-6Al-4V ELI bar	Ti-6Al-4V ELI	ASTM F136	Annealed
Heat NO.	Lot No.	Size	Weight
MT16918	1707291	dia 10.0x2000mm	39.80Kgs

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	0.007	0.011	0.0009	0.14	0.097	5.93	4.08
	bottom	Bal	/	/	/	/	/	/	/

3. Mechanical properties:

Test Items	Tensile strength Rm (MPa)	Yield strength Rp0.2 (MPa)	Elongations (%)	Reduction of Area (%)
Requirements	>=860	>=795	>=10	>=25
Results	971	910	20	51

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 bar Ti-6Al-4V ELI herein has been manufactured, samples, tested and inspected in accordance with ASTM F136 and other specified requirements of contract number TG1700061a, and met these requirements.

Inspected by	Prepared by	Approved by
Michele Zhang	Jimmy Liu	Andrew Wang
Aug.1st, 2017.	Aug.1st, 2017.	Aug.1st, 2017.