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QUALITY CERTIFICATE

No.: TG1700025a-0.3x400x1000mm

1. Description:

| Commodity | Material | Standard | Condition |
|---------------------|----------------|----------------|-----------|
| Titanium Gr.2 plate | Titanium Gr.2 | ASTM F67 | Annealed |
| Heat NO. | Lot No. | Size | Weight |
| 1602-502057 | 1602-502057-20 | 0.3x400x1000mm | 5pcs |

2. Chemical composition (wt%) :

| Element | Ti | N | C | H | Fe | O | Others | | |
|---------------------|--------|------|-------|-------|-------|-------|--------|-------|-------|
| | | | | | | | Each | Total | |
| Requirements (max.) | Bal | 0.03 | 0.08 | 0.015 | 0.30 | 0.25 | 0.10 | 0.40 | |
| Results | top | Bal | 0.005 | 0.008 | 0.001 | 0.168 | 0.16 | <0.01 | <0.04 |
| | bottom | Bal | 0.004 | 0.006 | 0.001 | 0.141 | 0.18 | / | / |

3. Mechanical properties:

| Test Items | Tensile strength Rm (MPa) | Yield strength Rp0.2 (MPa) | Elongations (%) |
|--------------|---------------------------------|----------------------------------|--------------------|
| Requirements | ≥ 345 | 275-450 | ≥ 20 |
| Results | 528 | 440 | 25 |

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 plate Gr.2 herein has been manufactured, samples, tested and inspected in accordance with ASTM B67 and other specified requirements of contract number TG1700025a, and met these requirements.

| Inspected by | Prepared by | Approved by |
|------------------------------|------------------------------|------------------------------|
| Michele Zhang | Jimmy Liu | Andrew Wang |
| Mar.24 th , 2017. | Mar.24 th , 2017. | Mar.24 th , 2017. |