

TO : UMICORE GALVANOTECHNIK GMBH

DATE : 2018.02.21

## INSPECTION CERTIFICATE

| PRODUCT        | LOT NO.     | WEIGHT |
|----------------|-------------|--------|
| IJR-4000 MW300 | 20180221231 | 20 KG  |

This is to certify that the above mentioned product(s) has duly complied with the requirements of our Quality Conformance Tests, conducted prior to Ex-factory;

This Product meets the requirements of IPC-4781 and the performance requirements of A-A-56032, Type II, as it applies to printed circuit board applications.

| ITEMS                  | TEST METHOD                 | SPECIFICATIONS                     | RESULT |
|------------------------|-----------------------------|------------------------------------|--------|
| Viscosity              | Cone-Plate Type 5rpm / 50°C | 12.5 ±1.0cPs                       | 13     |
| Pencil Hardness        | ≥ 4H /on Solder resist      | The solder resist must not be seen | 5H     |
| Solder Heat Resistance | 10sec.×3times/260°C(K-920)  | No ink peeling                     | Pass   |
| Adhesion               | Cross Cut 10×10             | 100/100 No peeling                 | Pass   |
| Appearance             | Visual Inspection           | Identical with past Lot.           | Pass   |

Expiration date : 2018-07-21 at 5°C

Please avoid from direct sunlight and keep the optimum temperature( 0~5°C ).

We secure above data.

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