

Life Comparison of Special-Coating Solder Pot for HAKKO FX-301

HAKKO CORPORATION

For lead-free solder, corrosiveness against other metals is high, and because of this even a soldering pot becomes unusable. The solder pot surface of the FX-301 has a ceramic coating as the standard; however, the coating may become peeled and corroded due to the effect of flaws or strong flux on the solder contact surface.

The “special-coating solder pot” is given an “aluminum diffusion treatment” to prevent corrosion, which increases the surface hardness and solder repelling effect.

Life test

○ Test conditions

Temperature of soldering pot: 490°C

(Input setting temperature of 450 °C + offset value)

* The temperature is slightly changed depending on kind of solder.

Solder used:

Sn100%

Use conditions:

Continuous power application

Specimen:

Stainless-steel pot

Standard coating - No. A1517 (50 square)

No. A1518 (75 square)

Special coating - No. A1539 (50 square)

No. A1540 (75 square)

○ Test results

Standard coating:

Corrosion was recognized after approx. 500 hours.

Special coating:

Corrosion was not recognized even after. 3500 hours.

* The test results show only the data under the above conditions and do not indicate a guarantee of the life of the unit.

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