Standard Lead-free Solder Paste for Automobile

High reliability and performance. Adopted by TOYOTA MOTOR CORPORATION. GSP

High SIR.

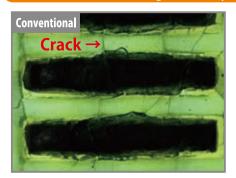
Surface Insulation Resistance

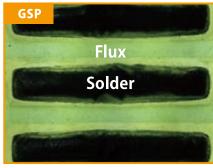


More than 10°Ω from initial

Realize the suppression of residue cracking.

Flux residue after loading thermal cycle test.





Test condition

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Applied voltage: 20V

■ **Test board**: JIS II comb board ■ **Paste thickness**: 150 μ m

■ Environment:85°C/85%RH

- Thermal condition:-40⇔125°C (30min. Each)
- Observed point: 0.5mmP QFP
- Print thickness: 180 μ m

Transmission observation with lighting from the back surface of the substrate.

No jointed clack even after 2,000 cycles

Highly viscosity stability

Viscosity and Thixotropy change

(80% of paste was replaced with new paste, every 12 hours) 700 600 0.6 0.53 0.45 500 400 0.4 300 230 0.3 200 0.2 100 0 0 n 24 48 96 Time(h)

Highly viscosity stability ▶
Possible to reduce solder paste waste