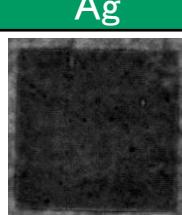
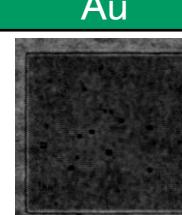
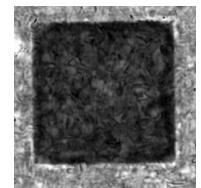
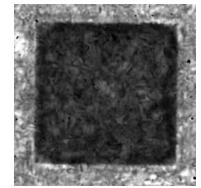


Cu Sinter Paste

With advanced demand for power devices, the market wants the bonding materials which have both high thermal conductivity and high heat resistance. Our Cu sinter paste is a solution of the above needs.

1. Cu Sinter Paste for Pressure sintering (Nitrogen)

Process	Adaptability			Reliability
	Surface finish	Ag	Au	
Screen printing	SAT image* ¹ * ²			TCT -55°C to 150°C, 1000 cycles
Drying	Shear strength	> 60 MPa	> 60 MPa	SAT image* ¹ * ² Before  After 
Die mounting				
Pressure sintering				

*1 Sintering parameter: 9MPa, 280°C × 5min.

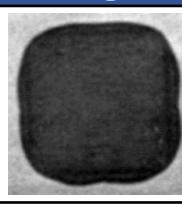
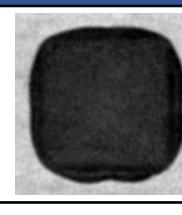
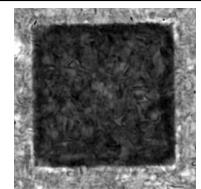
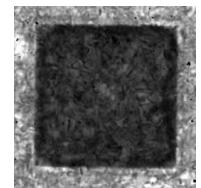
*2 Junction size: 5mm × 5mm

*1 Sintering parameter: 20MPa, 300°C × 10min.

*2 Si Die: 7.8mm × 7.8mm, 90μmmt, Back metal: Au

AMB substrate: 35.6mm × 28.0mm, 0.92mm(Bare Cu)

2. Cu Sinter Paste for Pressure-less sintering (Formic Acid)

Process	Adaptability			Reliability
	Surface finish	Ag	Au	
Dispensing	SAT image* ¹ * ²			TCT (w/o molding) -55°C to 150°C, 1000 cycles
Die mounting	Shear strength	> 30 MPa	> 30 MPa	SAT image* ¹ * ² Before  After 
Pressureless sintering				

*1 Sintering parameter: 200°C × 60min.

*2 Junction size: 3mm × 3mm

*1 Sintering parameter: 200°C × 60min.

*2 Si Die: 3.0mm × 3.0mm, 200μmmt, Back metal: Au

Substrate: TO-247 (Bare Cu)