

Tension[®]

The world's most advanced SMT
stencil foil material



Datum

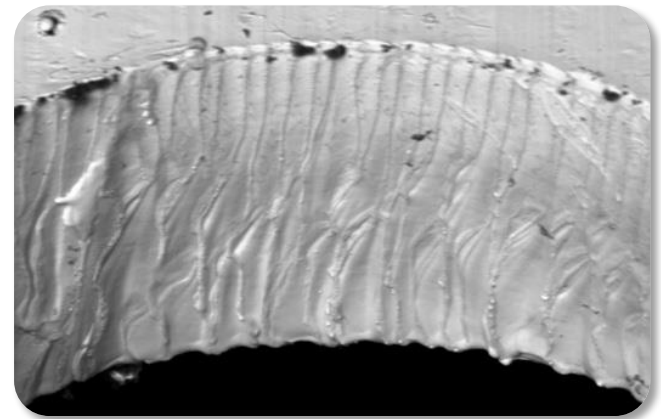
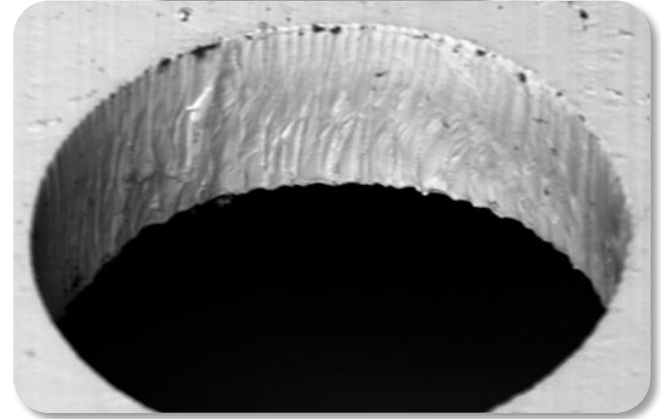
Tension

Hardened Stainless Steel

Improves Quality and Reduces Cost

New alloy:

- Resists stretching under high tension to maintain registration with PCB
- Improves solder paste transfer efficiency and volume repeatability
- Laser cuts as cleanly as FG, our high-performance SMT stencil alloy
- Saves money with a price point close to PhD, our general purpose SMT stencil alloy



Print Performance

Improves upon FG's Best-in-Class Print Quality

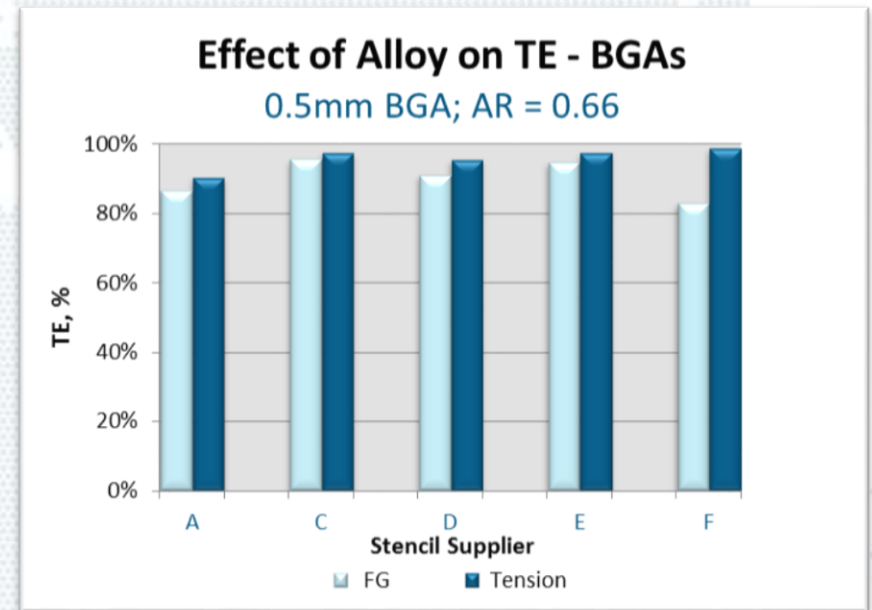
Fine Feature Printing – *Production Data*

0.5mm pitch BGA, 0201

- Improved transfer efficiency by 3%
- Similar volume variation (<10%)

0.4mm pitch BGA, 01005

- Improved transfer efficiency by 7%
- Tighter volume ranges



Cut Quality

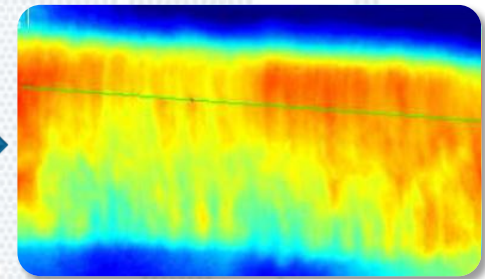
Smother than FG

Cutting tests spanned the globe

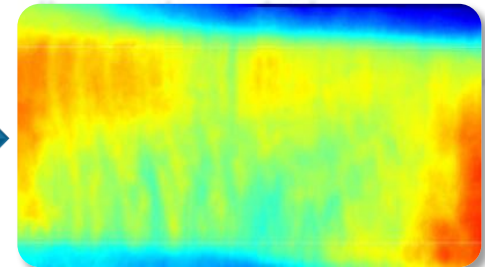
Study used stencil suppliers in US, EU and AP regions

- Tested FG and Tension head-to-head
- Asked stencil shops to cut Tension on same parameters as FG
- All Tension walls were smoother when directly compared visually with SEM
- Tension wall topographies quantified smoother with Digital Holographic Microscopy (DHM topographical maps at right)

FG



Tension



Value

Better Performance and Better Price

Performance rivals FG

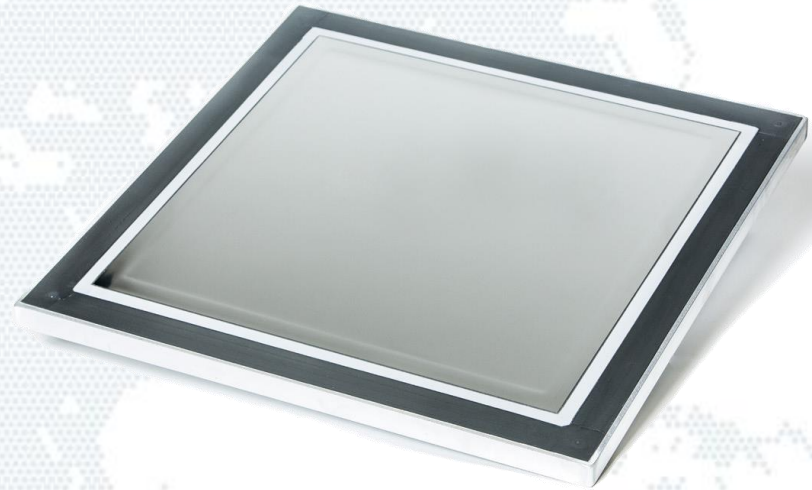
- Equal or better print quality
- Fewer print defects

Price rivals PhD

- Positioned slightly higher than PhD
- Easy transition from PhD
- Cost reduction from FG

New, unbeatable value proposition

- No downside or tradeoffs
- **Improves BOTH performance and pricing**



Available premounted on Datum
MK-1 or Zero frames

Thank you for your time and interest

If you have any questions, please contact

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