BlueRing STENCILS

An ISO 9001:2015 Company

UltraSlic™ FG Foil was developed to offer superior fatigue strength, a super smooth printing surface and improved wear factors. The fine grain structure allows for superior aperture registration and repeatable paste release.

No. 1 for Performance

Our obsession with print performance and data has resulted in UltraSlic™ FG, our most innovative SMT stencil material yet. Our goal was simple; deliver a true cost reduction without compromising performance.

We wanted to create a product that would laser cut and print like Slic™ plus offer the flexibility to work in all stencil types including meeting the emerging demand for High Tension Stencils.

We did it. Which is why our data says yes!

- UltraSlic™ stencils product the highest print yields
- Available in all the BlueRing thickness and width formats
- Manufactured with end-to-end process control and data capture
- Reduces noise and variability in the print process
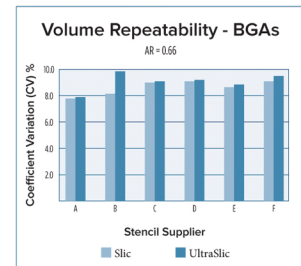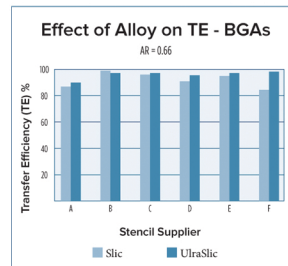
Product Selector Guide

	Slic	UltraSlic FG
Miniaturised or high-density assembly		•
Area ratios <0.60		•
General SMT, lead pitches≥ 0.5mm, leadless pitches≥ 1.0mm	•	•
Stepped stencil for µBGA, CSP, QFN, BTC		•
Uniform foil thickness ≥150µm	•	•
Powder Size Type: 5, 6		•
Powder Size Type: 3, 4	•	•

Specifications

- **Gauges:** 0.02 to 0.500 (0.8 mil to 12 mil)
- **Sizes:** Widths from 100mm to 690mm
- **Availability:** Worldwide

Wall Smoothness

- Smooth walls enable better solder paste fill and release
- Drops into current processes without requiring parameter adjustments
- Laser cuts cleanly and easily

Effect of Alloy on TE - BGAs (AR = 0.66) — Transfer Efficiency (TE) % vs Stencil Supplier; Slic, UltraSlic

Volume Repeatability - BGAs (AR = 0.66) — Coefficient Variation (CV) % vs Stencil Supplier; Slic, UltraSlic

Wall Roughness Comparison

Holographic Microscopy

Cut with the same laser parameters, the best performer
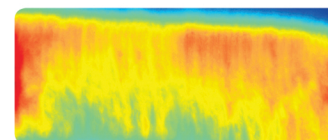
Slic™   UltraSlic™ Fine Grain

Tougher Steel

- Can carry high tension without stretching to maintain precise registration with PCB
- Stronger, stiffer webs limit spring back to produce crisper prints

Quality Commitment

- Right first time, every time
- Excel and lead in customer service and technical support
- Continuous process improvement