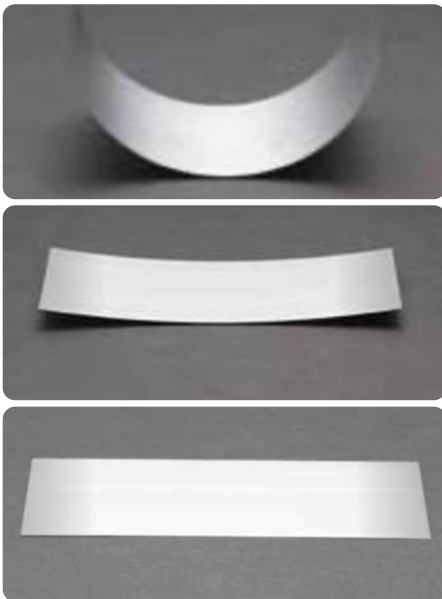


# Datum Fine Grain (FG)

## The best material for the best stencil

Datum's fine grain 304 material has been specifically developed for manufacturers to purchase the same grade material as the market standard PhD material with additional benefits. These benefits allow more complex and dense patterns to be cut in the stencil more accurately with no distortion.

- Grain size less than 5 microns (typically 2-3 micron)
- Stress relief annealed for increased flatness and reduced internal stress.
- Tightest thickness tolerance in the market.
- Produced to Datum's stringent flatness specifications.
- Perfect for etching or laser cutting – cuts more easily and cleanly than PhD.
- Used in production of step stencils with no distortion.
- Ideal for high density or fine feature printing with area ratios down to 0.50.



## Product Selector Guide

	PhD	FG
Miniaturised or high- density assembly		✓
Area ratios <0.66		✓
General SMT lead pitches >0.5mm leadless pitches > 1.0mm	✓	
Stepped stencil for µBGA, CSP, QFN, BTC		✓
Uniform foil thickness >150µm	✓	✓
Powder size type: 4,5,6		✓
Powder size type: 3	✓	✓

## Availability

### Thicknesses

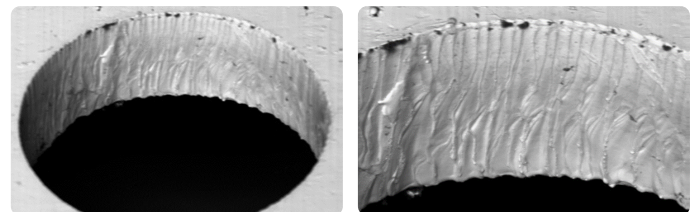
- 0.08mm up to 0.25mm available from stock (other thicknesses available on request)

### Widths

- 610mm wide

### Formats

- Coils - 610mm wide
- Sheets – 610mm wide or below at any length
- Frames – mounted into any frame
- Border holes – cut as required



# Datum Fine Grain (FG)

## Practical differences

- In addition to the benefits of using Datum Fine Grain (FG) as the base material there are a number of practical differences to using Datum as the supplier
- No minimum order quantity
- Short delivery times
- Coil or sheet available
- Delivery included in price
- Customers can order what they need in small regular deliveries rather than predicting what they will use over time

## Quality commitment

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