

Application Note**Inspection Target**

A composite material consists of two or more materials of differing properties combined to create a new structure with a new set of properties. Some of the best-known types of composite are the 'non-woven' and 'woven' fibre composites such as glass fibre and carbon fibre composites. These are constructed by applying layers of fibre to a chemical binder, like epoxy.

Industries & Markets

- Aerospace
- Automotive
- Composite

Inspection Techniques

- Multi-frequency inspections
- Linear array inspections
- C-Scanning
- Amplitude comparison
- Depth Comparison

Features & Benefits

- UTmap software, with its C-Scan stitching capabilities, increases overall productivity and flaw measurement precision.
- VEO3, PRISMA and RSFlite user interfaces are optimised for composite mapping inspections.

Recommended Tool package

- X3A probe and wedge series
- Wheel probes WP2 series
- VEO3 / PRISMA / RSFlite

Example

For our sample we used a stepped carbon fibre composite with Teflon inserts representing laminations of differing sizes.

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