

Basis Weight Measurement for Carbon Fibers DATA SHEET - EddyCus® CF inline BW

The EddyCus® CF inline BW is especially designed for the inline monitoring of basis weight for carbon fabrics. The weaving and spreading process of CF tows or processing of chopped fibers or non-wovens such as fleece can evaluate online without be contact to fabric. Each sensor observes a particular lane of the multiple web. By stacking

sensors, one can monitor the entire web width.

This non-destructive testing solution is independent of the presence of **resin**, **binder or thermoplastic matrix**. It can measure carbon volume fraction of intermediates such as thermoset prepregs or organic sheets. SURAGUS GmbH Maria-Reiche-Str. 1 01109 Dresden Germany

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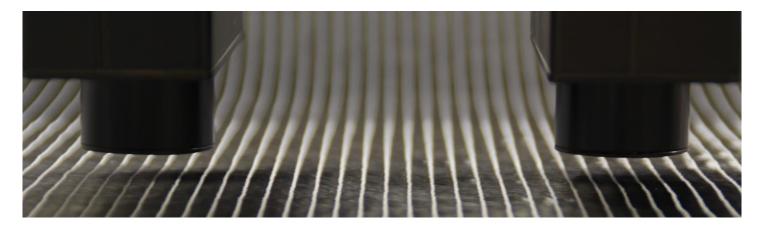
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Understanding carbon fiber materials.



DATA SHEET EddyCus® CF inline BW – Basis Weight Measurement



EddyCus [®] CF inline BW

Sample rate	1 – 500 samples/sec/lane
Measurement / Scanning area	1 – 99 sensors across entire web width
Fluttering tolerance	± 1 mm (higher on request)
Interface	e.g. ethernet, profibus
Required space	Small (approx. 300 mm in production line)
Mode	Process control, quality report
Carbon fiber materials	CF-non-wovens, CF-fleece, CF UD-tapes, CF non-crimp
	fabrics (NCF), flat CF preforms, conductive coatings

QUANTITATIVE MEASUREMENT

Applications

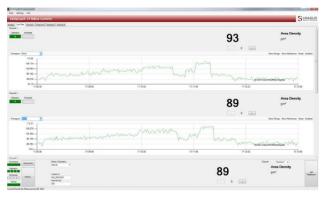
- Non-contact determination of basis weight
- Non-destructive measurement of carbon fiber volume fraction
- Evaluation of conductive coating
- Suitable for non-woven CF fabrics, CF fleece or recycled short CF, CF, UD tapes

Benefits

- + Non-contact, coupling-media free
- + Penetration of all layers
- + Applicable to carbon fabrics
- + Adaptive system
- + Presence of binder or matrix irrelevant

SOFTWARE & HANDLING

- High usability
- Intuitive design/handling
- High speed measurement and display of results
- Data archiving



Basis weight monitoring of four lanes: two lanes diagrammed