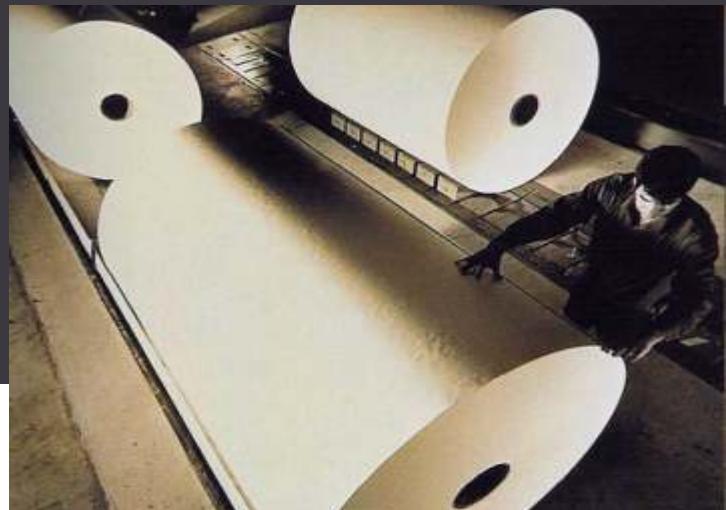


FT-NIR Quality Control of Paper

Determination of Physical Parameters

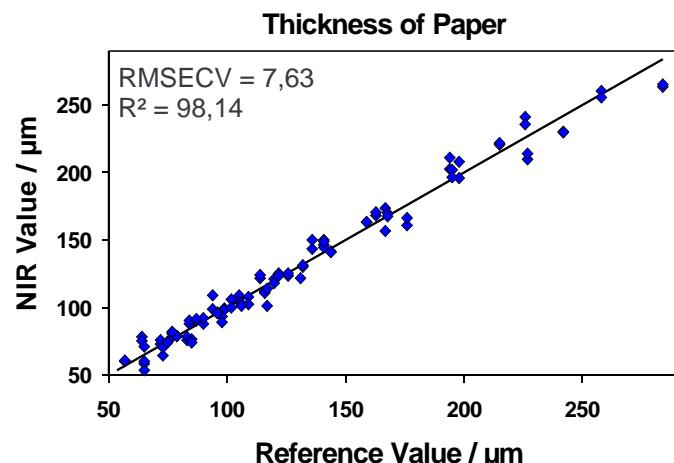
The FT-NIR Spectrometer MPA with integrating sphere is a fast, precise and non-destructive tool to effectively and cost efficiently help you with your daily QA/QC tasks.



Without any sample preparation all important physical parameters of paper can be determined with one measurement only. The sample is put onto the integrating sphere with gold coated reflection standard on top and the measurement is started. After a few seconds you get all the information you have calibrated.

Calibration Examples:

- Thickness $55 - 295 \pm 7.6 \mu\text{m}$
- Moisture $0.7 - 7 \pm 0.25 \%$
- Grammage $60 - 300 \pm 5 \text{ g/m}^2$
- Wet Extension $0.15 - 3.66 \pm 0.23 \%$



Paper analysis using NIR spectroscopy



The integrating sphere of the MPA spectrometer



Determination of physical paper parameters



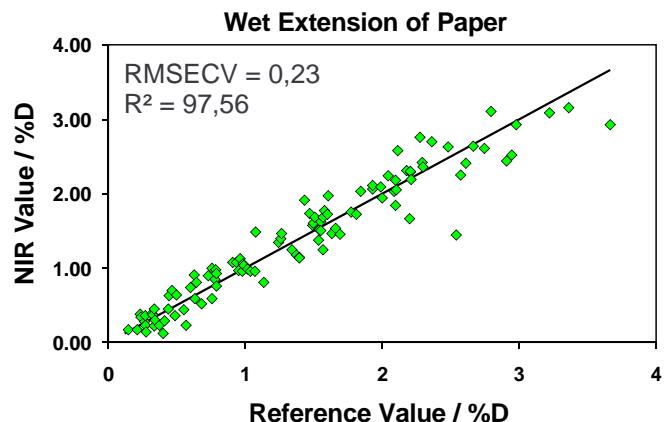
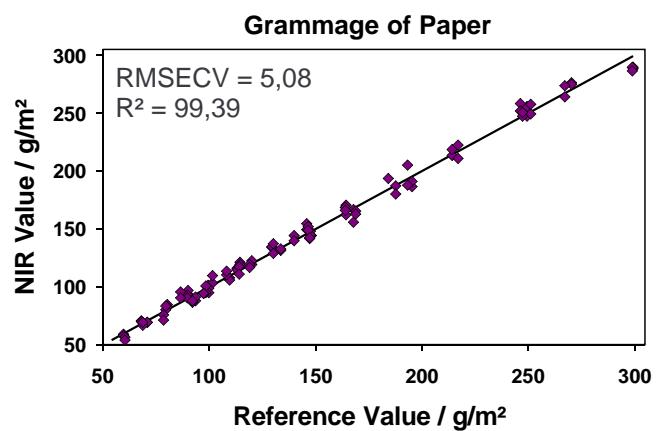
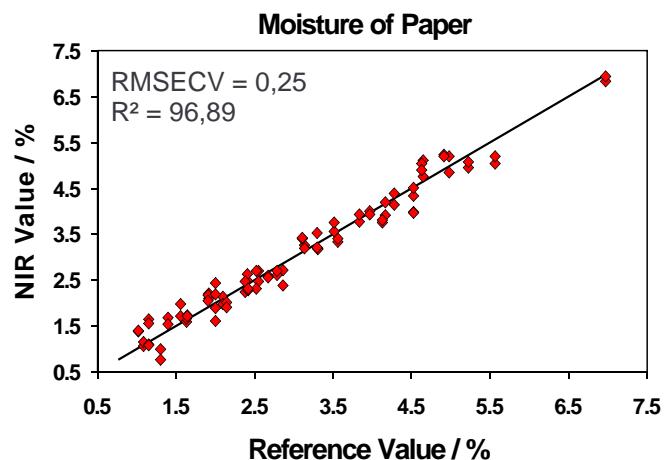
MPA spectrometer with complete accessory selection



Application:

The NIR spectroscopy is well utilized in the pulp and paper industry to ensure fast and precise quality control of paper products.

Not only the physical parameters can be determined but also the detectable fillers like clay and talc, wet strengtheners (e.g. urea), ash content or coatings (e.g. silicone). All sorts of papers can be analyzed, from teabags, tissue paper, beyond photocopying paper up to heavy cardboards.



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