



Application Note AN N202

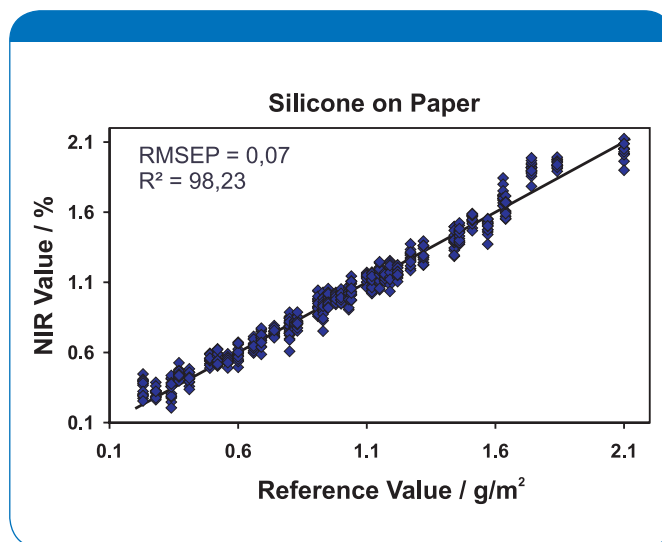
FT-NIR In-Line Quality Control of Paper

Monitoring of the Silicone Coating Process. The FT-NIR spectrometer MATRIX-E, developed for contactless measurements, can be used for monitoring the grammage of silicone coatings directly at the coating machine.

The coating machine works at a speed of 600 m/min and every ten seconds the MATRIX-E carries out a measurement. In the first step of the analysis the basic paper is identified and dependently on this result the quantification model is chosen to determine the grammage of the silicone coating. The results are transferred to the control system to adjust the silicone addition.

Calibration Examples:

- Silicone coating $0.2 - 2 \pm 0.07 \text{ g/m}^2$



Bruker Optics can look back on 30 years of experience in developing and producing optical spectrometers. Our experience is your benefit:

Application Support

Bruker Optics is staffed by scientists and engineers that have an in-depth knowledge of instrumentation and applications. Our product specialists are available to assist you with method development either remotely or in your lab. FT-NIR application scientists will assist you in the selection and use of sampling accessories, choice of optical components and software operation. We offer customized instruction and support packages to fit your needs.



Service and Maintenance

Bruker spectrometers are intended to provide years of trouble-free operation, but should a problem occur a network of Bruker companies and representatives around the world are ready to respond to your needs. Professional installations and a high standard of post-delivery service are commitments Bruker makes to each of its customers.



Training

Customer training courses are held on a regular basis for the benefit of the FT-NIR instrument users. Both technical and software (e.g. OPUS/IR, IDENT, QUANT) practice seminars are offered. Customized on-site training is also available from our staff of FT-NIR specialists.



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