



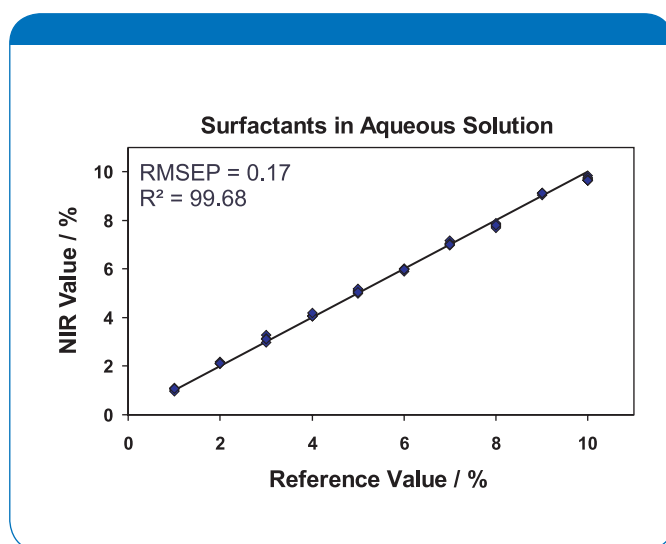
Application Note AN N206

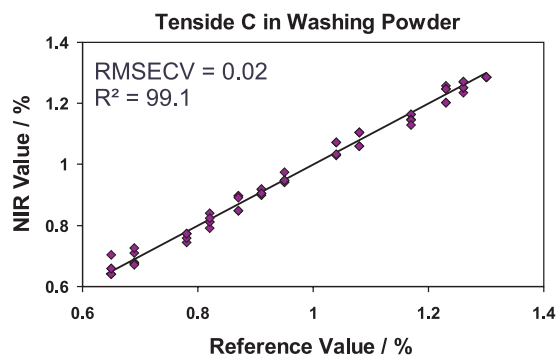
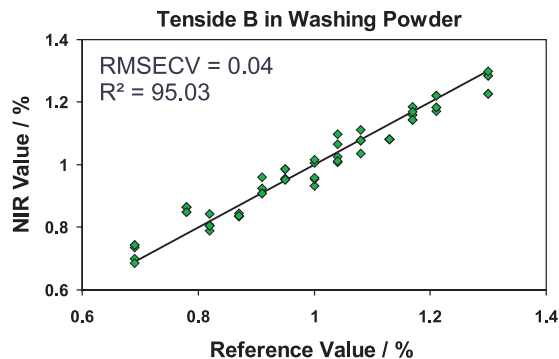
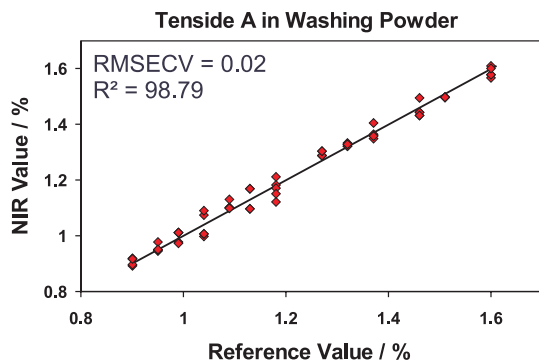
Quality Control of Surfactants and Tensides

Whatever sample you want to measure, liquid or solid, with the transmission and reflection probes of the FT-NIR spectrometer MPA you can analyze both. In addition, solids can be measured on the integrating sphere

Modern washing powders and liquids contain a large number of chemical ingredients in various quantities. The complex mixtures reflect the complex applications of today's detergents, which have to deliver a high standard of cleaning our clothing and textiles.

Furthermore the detergents need to meet safety and environmental demands, therefore making a precise analysis of important ingredients necessary.





Calibration Examples:

Aqueous Solution

- surfactants 1 - 10 ± 0.17 %

Different Tensides in Washing Powder

- A 0.9 - 1.6 ± 0.02 %
- B 0.7 - 1.3 ± 0.04 %
- C 0.65 - 1.3 ± 0.02 %

The brand names of the different tensides in the washing powder are confidential and are therefore called A, B and C, respectively. However the general feasibility of the analysis is shown here.

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