

Luzi's Approach to Produce Highest Quality Perfumes

The pleasant smell of any cosmetic product or perfume originates from a fragrance or perfume oil concentrate. Each concentrate is characterized by its specific smell. Luzi AG, a family-owned Swiss company, relies on an automated system from METTLER TOLEDO based on a combined density refractometer to determine those two parameters which are crucial for continuous product quality.

Small business with global reach

Luzi AG is a family-owned business situated in Dietlikon, Switzerland, specializing in fragrances and perfume oils for consumer goods such as washing and cleaning detergents, cosmetics, perfumes and fragrances for special products such as candles. The company exports its products to more than 100 countries all over the world. A group of 7 perfumers work on the creation of fragrance concentrates and 9 sales personnel support their customers around the globe.

Product quality is key

"We are a small company and customer satisfaction is very important for our business", explains Dr. Cornelius Nuss-

baumer, Manager Product Safety and Quality Control. In order to guarantee a consistently high fragrance oil quality, special attention is paid to the determination of the density and refractive index of a concentrate sample. To accomplish this task Luzi uses the automated density/refractive index system DR40/SC30 from METTLER TOLEDO. Thanks to its unique technical features, the system has greatly facilitated the work in their quality control laboratory.

Ensure production quality

Density and refractive indexes are characteristic for a specific mixture and serve as quality control parameters for final fragrance concentrates before they

are released. As the sample concentrates can vary greatly in respect to viscosity, Luzi needed a system that could easily and accurately handle a broad range of differently textured samples. The control of up to 70 production batches per day also justified the purchase of an automated system that allowed freeing up time for other laboratory tasks. Uncomplicated export of data into the company's own data management system was another very important requirement as the company stores all results in an own Access database.

The first two requirements could be easily met with the existing DR40/SC30 system. The third required a dedicated software,



Advantages of the DR40/SC30 system in conjunction with the LiQC Standard software:

- Measurement of even highly viscous samples
- Automatic sample delivery by pressure rather than sucking reduces air bubble formation
- Efficient automatic cleaning
- Automatic error detection system
- Export of various data formats into own database system by the LiQC Standard software



called LiQC Standard, which METTLER TOLEDO adjusted to Luzi's needs through working in close cooperation with the company. Apart from instrument control features, the software allows the simple export of various data formats giving users the highest possible flexibility. "Thanks to a good cooperation with METTLER TOLEDO", said Mr. Nussbaumer, "we received a system that exactly fulfilled our three needs and tremendously improved our daily laboratory work as well as increasing the reliability of our results."

Increasing quality requirements push automation

Finally, METTLER TOLEDO was interested to ascertain how to further improve this system. "Automatic sample recognition by barcode would definitely be an asset as regulations become more stringent and handling errors need to be excluded whenever possible" was a suggestion from Mr. Nussbaumer. The sample data is currently manually entered by the operator prior to the measurements.

► www.mt.com/densimetro-refractometro



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Thanks to a good cooperation with METTLER TOLEDO's Application Specialist Csaba Reisinger (left), Mr. Nussbaumer, Manager Product Safety and Quality Control of Luzi AG (right), received a system fulfilling his needs.