

## Fast Quality Control for Coolants and Windshield Washer Fluids



When you manufacture several million vehicles a year, quality is of utmost importance at each stage of production. In order to control coolants and windshield washer fluids accurately and quickly when tanks are being filled, a well-known automaker wanted to equip its plants with a simple, reliable and fast analysis technology. The superior technology of METTLER TOLEDO's portable refractometers was a clear choice for controlling the quality of the different fluid blends produced on site.

### Quality as a Main Concern

Fortified by nearly a century of know-how, this manufacturer today is a key player in Europe's automotive market. One aspect behind this phenomenon can be found in its credo: quality requirements at every stage of design and manufacture.

In terms of quality, this company's research center wanted to equip its plants to control the coolants and windshield washer fluids on the production lines when tanks are filled. The objective was to find a simple, reliable and fast analytical method to control the quality of the fluid blends manufactured on site.

### Speed, Simplicity and Reliability

Firstly, the center focused on the technique which best met production expectations and constraints. After having identified and selected the determination of the refractive index as the most rel-



evant method to use, several manufacturers and suppliers of refractometers went head-to-head.

The manufacturer's specifications were clear with regard to the constraints to take into account: the control instrument had to be easy to use and the measurement time had to especially be the shortest possible. Indeed, it is the production operator who performs the control whilst simultaneously carrying out his work on the production line; he therefore has very little time between each vehicle.

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### **Advice and Suitable Solutions from METTLER TOLEDO**

After several weeks of on-site tests in collaboration with our specialists, METTLER TOLEDO's RE30PX portable refractometer was chosen for the overall suitability of the solution provided in terms of the initial expectations and for the quality of advice they received from METTLER TOLEDO. The feedback of METTLER TOLEDO's customer was the following: "In accordance with the assessment of the manufacturer, the RE30PX portable refractometer offers the best quality/price/performance ratio on the market."

The operators tested the RE30PX on site for three months to ensure that the instrument truly met the constraints and expectations identified in the specifica-

tions and to validate the choice of equipment definitively.

Buying the METTLER TOLEDO RE30PX portable refractometer has turned out to be an appropriate investment for this major player in the automotive market. Today, thanks to the instrument's recognized performance, it has been recommended that all of this manufacturer's plants use the METTLER TOLEDO RE30PX refractometer for quality control in production of coolants and windshield washer fluids. Many sites have theirs in place already.

► [www.mt.com/refractometry](http://www.mt.com/refractometry)