

## **LABORATORY PREDICTION OF ROAD / TYRE NOISE AND ROLLING RESISTANCE**

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*ABSTRACT*

This paper summarises two test methods using the same equipment that enable the laboratory prediction of road / tyre noise and rolling resistance. The findings of the laboratory investigations agree with established research and enable engineers either developing new road surface materials or improving existing materials to predict their road / tyre noise and rolling resistance characteristics relatively quickly in the controlled environment of a laboratory. Test specimens can be prepared from latex peels extracted from existing highway surfaces or from test specimens undergoing simulated trafficking in the laboratory.

*KEY WORDS:* Noise, rolling resistance, prediction