

Skid resistance measurements SKM method



The SKM grip measurement measures the frictional resistance or force transmission between the measuring tyre and the road surface. The grip varies depending on the condition of the road and the speed of the vehicle.

Nowadays, many road construction projects are carried out where the contractor is responsible for the maintenance of the pavement for a certain period after completion. The quality of the road surface often has to be met during this period. This also applies to the grip of the road surface. Measurement methods, acceptance limits and measurement dates that deviate from the standard regulations can be defined.

The SKM grip measurement measures the frictional resistance or force transmission between the measuring tyre and the road surface. The grip varies depending on the condition of the road and the speed of the vehicle. Here, drive and braking forces as well as lateral forces act on the grip when cornering. SKM not only focuses on the quality of the road surface, but also on road safety. The measurement provides important values for the condition assessment and evaluation of new or existing road surfaces.

In order to meet the requirements and as a result of more than 30 years of experience, Kiwa has developed a large number of SKM vehicles over the years. This means that the most suitable vehicle is used for each project.

To ensure the quality and safety of road surfaces, Europe's largest SKM measuring vehicle is used.

The test vehicle records for you:

- the evenness in longitudinal and transverse direction,
- Spurrinnen,
- Water depth in ruts,
- Excessive elevation/lateral inclination,
- Crack formation,
- the macro texture,
- the road marking (e.g. edge line),
- fraying and

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- several minor damages (e.g. potholes, road stains, kerbstones, edge hardening).

By combining the SKM measured values with data from precise GPS and laser systems, visual evaluation is possible at the touch of a button. This allows striking skid resistance values to be recognised and geographically limited in a matter of seconds.

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