



Friction Testing Services



Fugro offers friction testing services for pavement management, accident sites, maintenance and forensic investigations. Friction testing helps agencies determine if a pavement requires resurfacing or other maintenance applications to provide adequate friction resistance.

Friction Testing of Paved Surfaces

Our system meets the ASTM E274 standard procedure for measuring the friction resistance of paved surfaces with a full-scale specialized test tire. This system uses a truck with a water tank and instrumentation to pull a trailer that distributes water in front of the trailer tire and locks the tire to simulate skidding in wet conditions. Measurements are conducted under constant load and constant speed. The values measured record frictional properties for skid resistance evaluations of pavements.

Friction is an important pavement evaluation parameter because:

- Inadequate pavement friction will lead to higher incidences of skid-related accidents.
- Agencies have an obligation to provide users with a roadway that is “reasonably” safe.
- Friction measurements can be used to evaluate various types of materials and construction practices.

Pavement friction changes over time. Typically it increases in the first two years following construction as the roadway surface is worn away by traffic and rough aggregate surfaces become

exposed, then decreases over the remaining pavement life as aggregates become polished. Many factors affect friction including seasonal variations, flushing, polished aggregates, raveling, and application of crack sealant.



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