Purpose

Labelling of tyres with respect to fuel efficiency according to European Regulation EC (No) 1222/2009

TÜV SÜD service

- Laboratory alignment procedure for implementation of Regulation EC (No) 1222/2009
- Performance of the laboratory alignment necessary for the measurement of tyre rolling resistance

Member of the reference network

TÜV SÜD is a member of the European Commission expert group on laboratory alignment for the measurement of tyre rolling resistance and part of the European network of reference laboratories.
**Alignment service**

The measured rolling resistance coefficient (RRC) in a reference laboratory must be aligned to the assigned values of the network of reference laboratories. The RRC measurement in a candidate laboratory must be aligned through one reference laboratory of the network of the candidate laboratory’s choice.

**Alignment procedure**

The reference laboratory calculates the linear regression function of the candidate laboratory as follows:

\[
RRC_{m,l} = A_2 c \times RRC_{m,c} + B_2 c
\]

where:
- \( RRC_{m,l} \) is the measured value of the rolling resistance coefficient by the reference laboratory (l) (including temperature and drum diameter corrections)
- \( RRC_{m,c} \) is the measured value of the rolling resistance coefficient by the candidate laboratory (c) (including temperature and drum diameter corrections)

The aligned RRC of tyres tested by the candidate laboratory is calculated as follows:

\[
RRC = (A_1 l \times A_2 c) \times RRC_{m,c} + (A_1 l \times B_2 c + B_1 l)
\]

**Your benefits**

- Aligned test bench as required by EC (No) 1222/2009
- Service performed by independent test laboratory
- Long experience in tyre testing
- Reliable partner of the tyre and vehicle industry (incl. OEMs)

**Choose certainty. Add value.**

TÜV SÜD is a premium quality, safety and sustainability solutions provider that specialises in testing, inspection, auditing, certification, training and knowledge services.

Represented in over 800 locations worldwide, we hold accreditations in Europe, the Americas, the Middle East and Asia. By delivering objective solutions to our customers, we add tangible value to businesses, consumers and the environment.