



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

SMITHERS RAPRA, INC.¹
Ravenna Laboratory
1150 North Freedom Street
Ravenna, OH 44266
Douglas E. Rice Phone: 330 762 7441

MECHANICAL

Valid To: March 31, 2012

Certificate Number: 0363.03

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on vehicles and automotive components and systems:

Test:

Test Methods:

Durability and endurance testing

Tire endurance	CMVSS: -109, -119; FMVSS: -109, -119, -139, -575.104 (temperature resistance); NOM: -016, -086; SAE J918c; ASTM F551
Tire high speed durability	CMVSS: -109, -119; FMVSS: -109, -119, -139; NOM: -016, -086; SAE: J918c, J1561; ASTM F551
Tire plunger energy	CMVSS: -109, -119; FMVSS: -109, -119; NOM: -016, -086; SAE J918c; ASTM F414
Tire bead push-off	CMVSS -109; FMVSS -109; NOM -086; SAE J918c
Wheel fatigue (radial, cornering, impact)	SAE: J175, J2530, J267, J328, J1204; GMW: 14341, 14909, 14910; ABNT NBR: 6750, 6751, 6752

Performance Testing

Rolling resistance	SAE: J1269, J2452; ISO 18164
Tire tread wear (predictive and indoor)	ASTM: F1016, F1426; Per customer contract
Tire force and moment measurement/characterization	SAE: J1987, J1988, J2704, J2705, J2710, J2718, J2717, J2730, J2731
Tire contact footprint characteristics and dimensions (images, and force, pressure and displacement measurement)	ASTM F870; Per customer contract
Tire physical characteristics and dimensions	ASTM F1502; Per customer contract

Testing methods and programs custom designed and configured to meet specific customer needs, within the scope of the above technologies and capabilities and published test methods.

(A2LA Cert. No. 0363.03) revised 7/26/2011

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¹ This accreditation covers testing performed at the main laboratory listed above, and the satellite laboratory indicated:

SMITHERS SCIENTIFIC SERVICES, INCORPORATED
21105 W.M28, Building #3,
Raco MI 49715

Test:

Test Method:

¹Tire traction (various surfaces and conditions)

ASTM F1805





World Class Accreditation

The American Association for Laboratory Accreditation

Accredited Laboratory

A2LA has accredited

SMITHERS RAPRA, INC.

Ravenna, OH

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009*).

Presented this 19th day of February 2010.



A handwritten signature in black ink, appearing to read "Peter Meyer".

President & CEO
For the Accreditation Council
Certificate Number 0363.03
Valid to March 31, 2012

For the tests or types of tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.