



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

SMITHERS

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MECHANICAL

Valid To: November 30, 2023

Certificate Number: 0363.05

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

**Test:**

**Durability and Endurance Testing**

Tire Endurance

Tire High Speed Durability

Tire Plunger Energy

Tire Bead Push-Off

Wheel Fatigue (Radial, Cornering)

Oven Aging

Wheel Impact

**Test Methods:**

FMVSS 109, 119, 139; CMVSS 109, 119, 139;  
SAE J918C; ASTM F551; UNECE R30, R54,  
R108, R109; CETP 04.04-E-3281; GB/T 4501,  
4502; GSO 53, 646; INMETRO R165, R205

FMVSS 109, 119, 139; CMVSS 109, 119, 139;  
SAE J918C, J1561; ASTM F551; GB/T 4501, 4502;  
GSO 53, 1784

FMVSS 109, 119, 139; CMVSS 109, 119, 139;  
ASTM F414; SAE J918C; GB/T 4501, 4502; GSO  
53, 646, 647

FMVSS 109, 139; CMVSS 109, 139; SAE J918C;  
GB/T 4502; GSO 53

SAE J267, J1204, J328, J2530; GB/T 5334, 5909;  
UNECE R124;

CETP 04.04-E-300; DTAP; GB/T 37259; ASTM  
F2838; CVTC 33036

SAE J175, SAE J2530; GB/T 15704; UNECE R124

**Test:**

**Performance Testing**

Air Permeation

Tire Physical Characteristics and Dimensions

Rolling Resistance

Tire Revolutions per Kilometer (RPK)

**Test Methods:**

ASTM F1112; GMW15000; CVTC 33222

FMVSS 109, 119, 139; CMVSS 109, 119, 139; ASTM F1502; UNECE R30, R54, R108, R109; GMW14997, 14998, 15004; GB/T 521; GSO 53, 646; INMETRO R165, R205

SAE J1269, J2452; ISO 18164, 28580; GMW14996; UNECE R117; GB/T 29040

GMW14999; ISO 17269

**Parameter<sup>2</sup>:**

Temperature/Humidity<sup>2</sup>  
(-60 to 180) °C  
20-98% Relative Humidity

Temperature Cycling<sup>2</sup>  
(-60 to 180) °C

Multi-Axial Vibration Testing<sup>2</sup>, Electrodynamic or Servohydraulic (with or without temperature)  
Frequency -- Up to 2,000 Hz  
Acceleration<sup>2</sup> -- Up to 20G  
Electrodynamic Displacement -- 50mm  
Peak-to-Peak  
Servohydraulic Displacement -- 100mm  
Peak-to-Peak

Pressure/Burst<sup>2</sup>  
Up to 8,700 psi (60Mpa)

Pressure Cycling<sup>2</sup>  
Up to 1,450 psi (10,000 kPa)

Air Pressure<sup>2</sup>  
Up to 72.5 psi (500kPa)

Vacuum Pressure<sup>2</sup>  
Up to -98 kPa (-29 In Hg)

Static Force<sup>2</sup>  
Up to 1,980 lbs. (8,809N)  
Optional Heat Only Conditioning

Cleanliness<sup>2</sup>  
70µm to 3000 µm

**Reference Standard(s):**

SAE J2044, Sec. 7.6.1

ESDG93-8260-AA, Sec. 3.15; SAE J2044 Sec. 7.5; PF-90080

ESDG93-8260-AA, Sec. 3.15; SAE J2044, Sec. 7.5.2/3/4, GMW14785, PF 90080, Sec. 9.3

ASTM D380, Sec. 16; SAE J2044, Sec. 7.6.1e; PF90080, Sec. 7.4

ESDG93-8260-AA, Sec. 3.20, SAE J2044, Sec. 7.5.5

ESDG93-8260-AA, Sec. 3.16, SAE J2044, Sec. 6.1.1

ESDG93-8260-AA, Sec. 3.16, SAE J2044, Sec. 6.1.5; PF90080, Sec. 7.3

SAE J2044, Section 6.2, ESGD93-8260-AA, 3.19

VDA19

<sup>1</sup> *When the date, revision or edition of a test method standard is not identified on the scope of accreditation, the laboratory is required to be using the current version within one year of the date of publication, per part C., Section 1 of A2LA R101 – General Requirements – Accreditation of ISO/IEC 17025 Laboratories.*

<sup>2</sup> *Also using customer supplied and industry specifications directly related to the test technologies and parameters listed above to perform tests on military, aerospace, automotive, medical, commercial, metals, plastics, rubber, electrical/electronic products and/or assemblies.*





# Accredited Laboratory

A2LA has accredited

**SMITHERS**

*Jiangsu, People's Republic of China*

for technical competence in the field of

**Mechanical Testing**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *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 April 2017).



Presented this 10<sup>th</sup> day of November 2021.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 0363.05  
Valid to November 30, 2023

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