



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

GENTHERM AUTOMOTIVE SYSTEMS (CHINA) LTD.

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MECHANICAL

Valid To: August 31, 2019

Certificate Number: 2570.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on automotive seat heater systems, heated/vented seats, heated steering wheels, and related components:

Test

Test Method(s)

General Environmental Testing

High/Low Temperature (-70 to 180) °C¹

BSDE5101 (Section 8.3);
BSDE5101 (Section 8.4);
ES 88005-10 (Attachment 3)

Humidity (15 to 95) % RH¹

BSDE5101 (Section 8.6)

Thermal Shock (-40 to 135) °C¹

BSDE5101 (Section 8.7)

Infra-Red Imaging (-20 to 200) °C¹

GENTHERM PLM#002229 (Section 4.3);
LAH.000.881.G (Section 6.2.3)

Temperature Measurement (-40 to 150) °C¹

GENTHERM PLM#002386;
GENTHERM PLM#002301 (Section 3.4.3);
ES-88005-10 (Attachment 5)

Air Flow/Permeability

Air Permeability
(98 to 2000) pa¹
(Test area of 20 cm² and 100 cm²)

GENTHERM PLM#002602;
ISO 9237

P-Q Curve Measurement

GENTHERM PLM# 002657 (Section 4.1)

Drop Test (1 to 1.5) m¹

ES-95400-10 (Section 6.2.7)

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Test**Test Method(s)**

Endurance Tests on Complete Seat

Robot or Pneumatic Tester (0 to 1200) N¹GENTHERM PLM#001737;
GENTHERM PLM#001735;
GENTHERM PLM#002455;
LAH.000.881.G (Section 6.3.2)

Compression Bending Test

LAH.000.881.G (Section 6.4.1);
GENTHERM PLM#002613Tensile Testing (0-2500) N, Max. 500 mm/min¹

Cable Pull-out test

GENTHERM PLM#002399 (Section 5.11)

Harness Retention Test

GENTHERM PLM# 001974(Section 5.9)

Cable Stripping Force Test

LAH.000.881.G (Section 6.4.3)

Determination of Pull-off Strength of Adhered
Fabrics (Gygli Standard)

GENTHERM PLM # 002399(Section 5.13.1)

Flammability of Interior Materials

Evaluation of Burn Rate of Vehicle Interior
Materials Required by the Highway Traffic
Safety Administration and/or Internal and
External Specifications (Horizontal Only)GENTHERM PLM#001992;
GMVSS/FMVSS 302;
SB 8410;
DIN 75200;
ISO 3795;
GS 97038 (BMW);
HES C206 (Honda);
TSM0500G (Toyota);
M0094 (Nissan);
MS300-08 (Hyundai, KIA);
TL1010 (VW);
PTL8501 (Porsche);
ES-X60410 (Mitsubishi);
GMW 3232;
SES N3245 (Suzuki);
BSDM0500 (Toyota);
DBL 5307 (Benz);
DVM-0006-ST (Ford);
MES CF 050F (Mazda)

¹ Also using customer specified test methods directly related to the tests and parameters listed above.



Accredited Laboratory

A2LA has accredited

GENTHERM AUTOMOTIVE SYSTEMS (CHINA) LTD.

Langfang, Hebei, China

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 April 2017).



Presented this 7th day of August 2017.

A handwritten signature in black ink, appearing to read 'L. Shen', written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 2396.03
Certificate Number 2570.01
Valid to August 31, 2019

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