



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

GENTHERM ELECTRONICS (SHENZHEN) CO. LTD.

No.466 Jihua Road

Bantian, Longgang District

Shenzhen 518112, Guangdong, China

Tony Zou Phone: +86 (755)28297636

E-mail: Tony.Zou@gentherm.com

MECHANICAL

Valid To: August 31, 2020

Certificate Number: 3674.01

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

Test:

Combined Environmental Test

Temperature & Humidity Cycle Test

Visual Acceptability Inspection

Temperature & Humidity Constant Test

Test Method(s):

Hyundai ES-90000-04 (Section 6.3.2);
GMW 3172 (Section 9.3.1)

BMW GS 95024-3-1 (Sections K-01, K-02, K-08, K-09, L-03);
DIN EN/IEC 60068-2-14, -30, -38, -78;
Hyundai ES-95400-10 (Sections 6.2.4, 6.2.5, 6.2.8, 6.2.10, 6.5.1);
GMW 3172 (Sections 6.1, 9.4.3, 9.4.5);
Mazda MES PW 67601 (Sections 7.2.5, 7.2.8, 7.2.11);
Toyota TSC7000G (Sections 4.1, 4.7, 4.8);
Toyota TSC7019G (Sections 4.3, 4.4, 4.5);
Toyota TSC7038G (Section 6.1);
Toyota TSC7306G (Section 4.23);
VW 80000 (Sections K-01, K-02, K-08, K-09, L-03)

Hyundai ES-90000-01;
GMW 3172 (Section 6.5);
Toyota TSC7019G (Section 4.2)

BMW GS 95024-3-1 (Sections K-03, K-14, L-02);
DIN EN/IEC 60068-2-1, -2;
Hyundai ES-95400-10 (Sections 3.5.1, 3.5.2, 3.5.3, 3.7.2);
GMW 3172 (Sections 6.2, 8.4.2, 9.4.1, 9.4.6);

Test:

Temperature & Humidity Constant Test
(continued)

Thermal Shock Testing

Water Testing

Oil/Chemical Resistance

Salt Spray Test

Drop Test

Push/Pull Test

Test Method(s):

Mazda MES PW 67601 (Sections 7.2.1, 7.2.2,
7.2.3, 7.2.4, 7.5.1);
Toyota TSC7000G (Sections 4.2, 4.3, 4.4, 4.5);
VW 80000 (Sections K-03, K-14, L-02)

BMW GS 95024-3-1 (Section K-05, K-16);
Hyundai ES-95400-10 (Section 3.7.1);
GMW 3172 (Section 9.4.2);
Mazda MES PW67601 (Sections 7.2.6, 7.2.7);
Toyota TSC7000G (Section 4.6);
Toyota TSC7010G;
Toyota TSC7038G (Section 6.2);
VW 80000 (Sections K-05, K-16)

BMW GS 95024-3-1 (Section K-10);
IEC 60529 IPX1, IPX2;
Mazda MES PW67601 (Section 7.2.9.5);
VW 80000 (Section K-010)

BMW GS 95024-3-1 (Section 6);
Toyota TSC7000G (Section 4.12);
VW 80000 (Section C-01)

BMW GS 95024-3-1 (Section K-07);
Hyundai ES-91500-02 (Section 4.8);
Hyundai ES-95400-10 (Section 3.5.13-2);
GMW 3172 (Sections 9.4.7 and 9.4.8);
VW 80000 (Section K-07)

BMW GS 95024-3-1 (Section M-01);
Hyundai ES-95400-10 (Section 3.5.7);
GMW 3172 (Section 9.3.10);
Mazda MES PW67601 (Sections 7.3.3.1 and
7.3.3.4);
Toyota TSC7000G (Section 4.15);
VW 80000 (Section M-01)

Hyundai ES 91500-00 (Sections 5.2.2, 5.2.3,
5.2.4, 5.2.5, 5.2.7, 5.2.8, 5.2.9, 5.2.10, 5.2.11);
GMW 3172 (Sections 9.3.5, 9.3.6, 9.3.8);
GMW 3191 (Sections 4.2.3, 4.2.8, 4.2.18, 4.2.19)



Accredited Laboratory

A2LA has accredited

GENTHERM ELECTRONICS (SHENZHEN) CO., LTD.

Shenzhen, 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 17025:2005 *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 20th day of August 2018

A stylized signature in black ink, written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 3674.01
Valid to August 31, 2020

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