



SamsACT Testing Services

ISO/ IEC 17025 Accredited Test Lab. by NABL

(NABL Accreditation Certificate No. TC-10092)

Dear Valued Customer,

Greetings from SamsACT Testing Services!

At SamsACT, we strive to provide leading technology, best quality and excellent testing services offering at reasonable pricing ...

Facilities offered at SamsACT Testing Services (NABL Scope):

Thermal Cycling Test Chamber:

Model: ARSF 680-15

Make: ESPEC, Japan

Capacity (Volume): 680 Litres

Internal Test Space Dimensions:

850 (W) X 1000 (H) X 800 (D) mm

Temperature Range: (-)70 Deg C to (+)180 Deg C

Humidity Range: 10% RH to 98% RH

Heating Rate: 15 Deg C per minute

Cooling Rate: 15 Deg C per minute



Thermal Shock Test Chamber:

Model: TSA-203ES-W

Make: ESPEC, Japan

Capacity (Volume): 200 Litres

Internal Test Space Dimensions:

650 (W) X 460 (H) X 670 (D) mm

Temperature Range:

Cold Zone: 0 to -70 Deg C

Hot Zone: + 60 to + 200 Deg C

Humidity Range: N/A

Transfer Time: Less than 5 Sec

Specimen Temp. Recovery Time: 5 to 10 min.

Salt Spray Test Chamber:

Model: EQSS1000-P

Make: Equilam, NA

Capacity (Volume): 1000 Litres

Internal Test Space Dimensions:

1190 (W) X 820 (H) X 830 (D) mm

Temperature Range:

Ambient +5 Deg C to + 55 Deg C

Bobble Tower Temperature Range:

Ambient +5.0 Deg C to + 74 Deg C



Combined System for Electro-Dynamic Vibration & Temperature – Humidity Test Chamber:

Make: IMV, Japan

Vibration Shaker Model: M060

Freq. Range: 0-3000 Hz

Rated Force

SINE : 600 N

Random: 420 N

Shock: 600 N

Max. Acceleration: 50g

Max Disp.: 30 mm p-p

Max Load: 15 Kg

Chamber Model : SYN-1HA40

Capacity in Litre : 45 Litres (Volume)

Internal Test Space Dimensions:

400 (W) X 400 (H) X 340 (D)mm

Temperature Range: -40 Deg C to + 120 Deg C

Humidity Range : 30% RH to 98% RH

Heating Rate: 2.0 Deg C per minute

Cooling Rate: 1.0 Deg C per minute

Vibration Shaker

Make: IMV, Japan

Vibration Shaker Model: i220

Freq. Range: DC to 3000 Hz

Max. Payload : 200 Kg

Specimen Mounting Screw Arrangement: M8 x 16 mm (17 no's)

Rated Force: 8 KN

Armature Mass: 6.9 Kg

Armature Table Dia.: 190 mm

Rated Force SINE : 8 KN, **Random:** 5.6 KN

Freq. Range: 5 Hz to 3000 Hz **Max. Accln.:** 1159 m/sec² (118 g)

Max. Velocity: 2.2 m/sec **Max. displacement:** 51 mm P-P

Special Specifications with Head Expander (TBV-630S-i20-A, 38 Kg):

Freq. Range: 5 Hz to 700 Hz **Max. Accln.:** 178 m/sec² (18 g)

Special Specifications with Slip Table (TBH-6-i20-A, 45 Kg):

Freq. Range: 5 Hz to 2000 Hz **Max. Accln.:** 154 m/sec² (15 g)



PENDULUM SHOCK TESTING MACHINE



Model: PST-300

Make: SHINYEI, Japan

SPECIFICATIONS:

Test sample table size: 100 mm

Test sample max. weight: 800 grams

Impact Acceleration range: 5g to 5000g

Pulse duration range: 11 ms to 0.2 ms

Shock Waveform: ½ sine wave

Pendulum luring radius: 300 mm

Anti rebound mechanism: Mounted

Control System: Single – Turn & auto cycle operation

Set count in auto Cycle: 4 digits

One cycle in auto cycle: Maximum of 15 sec

MC-712 Temp. Test Chamber Test Temp. Range: -75° C to +100° C



Make: ESPEC, Japan

SH-241 Temp. & Humidity Test Chamber Test Temp. Range: -40° C to +150° C Humidity Range : 30% RH to 95% RH



Make: ESPEC, Japan

Temp. Test Oven up to 300 Deg C



Make: Sam`s, India

COMBINED VIBRATION TEMPERATURE & HUMIDITY TESTING (Non – NABL Scope)

Make: SAMSACT (Using Additional Cabinet with ESPEC chamber & IMV Vibration Shaker)

✓ Vibration Testing for

- SINE TEST up to 70g ,
- RANDOM TEST 14 grms &
- MECHANICAL SHOCK TEST
up to 100g, 11 ms to 0.2 ms (Half SINE)

Along with

- ✓ Temperature Range: (-) 60 Deg C to (+) 150 Deg C
- ✓ Humidity Range: 20% to 95%
- ✓ Internal Test Space Dimensions: 800 (W) X 800 (H) X 800 (D) mm



Other Facilities/ Equipment offered at SamsACT Testing Services:

TACK TESTER – P3 (Non - NABL Scope)

Model: 80-29-01-0001

Make: Toyoseiki, Japan

The Tack Tester measures the adhesion or tack of rubber materials, adhesive tapes, sealants and other materials. Tack is defined as the force required to separate two sheet materials which are compressed together for a specified time. There are three primary factors which influence the behaviour of tack. These are contact pressure, temperature and contact time. Studies indicate contact time has the most significant impact in controlling tack of rubber. The Tack tester allows complete control of force and time. The unit also has an optional temperature sensor to verify temperature before testing.

FEATURES:

Measurement System: Load based,

Max. Capacity: 100N

Adhesion Measuring range: 0.0 and 30.0 N Resolution : 0.1 N

Sample holder/ indenter weight set: dead weight, 2-5 N

Weights included (1N weight increments)

Optional weights available from 2-20N

Sample holder/ Indenter up speed (Eight selectable speeds)

Optional Sample surface temperature



Sample is attached to the above holder.

Over all Test Facilities offered by SamsACT:

ENVIRONMENTAL TESTS (NABL Scope):

- ✓ Thermal Cycling Tests from -70 Deg C to +180 Deg C with a Ramp Rate up to 15 Deg C per minute
- ✓ High Temp. Tests from Ambient to +180 Deg C
- ✓ Low Temp. Tests from Ambient to -75 Deg C
- ✓ Temp. Cyclic Tests from -75 Deg C to +180 Deg C
- ✓ Humidity Tests from 10% RH to 98% RH
- ✓ Temp. & Humidity Cyclic Tests
- ✓ Damp Heat Tests
- ✓ Tropical Exposure Tests
- ✓ Thermal Shock Tests from (Cold Zone: 0 to -70 Deg C) (Hot Zone: +60 to +200 Deg C)
- ✓ Stability Chamber Tests
- ✓ Salt Spray & Corrosion Tests from Ambient +5 Deg C to +55 Deg C & up to 97% RH
- ✓ Temp. Oven from Ambient +10 to +300 Deg C

DURABILITY TESTS (NABL Scope):

- ✓ Vibration Testing for
 - SINE TEST up to 70g ,
 - RANDOM TEST 14 g_{rms} &
 - MECHANICAL SHOCK TEST 5g to 5000g, 11 ms to 0.2 ms (Half SINE)

COMBINED VIBRATION TEMPERATURE & HUMIDITY TESTING (Non – NABL Scope):

- ✓ **Vibration Testing for**
 - SINE TEST up to 70g ,
 - RANDOM TEST 14 g_{rms} &
 - MECHANICAL SHOCK TEST up to 100g, 11 ms to 0.2 ms (Half SINE)
- Along with**
- ✓ **Temperature Range: (-) 60 Deg C to (+) 150 Deg C**
 - ✓ **Humidity Range: 20% to 95%**

POLYMER PRODUCTS (Non – NABL Scope):

- ✓ **Tackiness Testing for Polymer Products**

NOTES:

- ✓ We can conduct cold testing up to (-) 100 Deg C with higher ramp rates up to 50 DegC per minute using Liquid Nitrogen injection.
- ✓ We also have a NABL Accredited Calibration Lab (Accreditation Certificate No. CC-2943) which follows ISO 17025 standards to test the parameters such as
 - Thermal Calibration: Environmental Chambers – Temperature and Humidity.
 - Mechanical Calibration: Accelerometers, Hand Held Shakers, Vibration Controllers, Vibration Shakers, Vibration Meters, Shock & Bump test machines.
- ✓ We also undertake repairing of Accelerometers and its associated cables with BNC & Microdot Connectors

We are hereby inviting you to visit our Test & Calibration labs and we shall be pleased to offer our best services to meet your requirements.