

# SHAPING THE FUTURE WITH ADVANCED TESTING SOLUTIONS

## ENVITEST LABORATORIES PRIVATE LIMITED

### Embrace Change. Innovate. Grow. Evolving to Meet Global Standards



As a leading provider of testing, certification, inspection, and compliance solutions, Envitest Lab has continuously evolved to serve the global marketplace. Our journey has been one of transformation—from a simple test house to a premier product testing lab with a vast scope of accreditations.

Our expertise spans Environmental, EMC, Safety, Interface Testing, and Certification, making us the preferred one-stop testing partner for businesses worldwide. We provide testing to meet the standards across diverse industries

Change is difficult, but progress demands it. At Envitest Lab, we believe that some things must end for better things to begin—whether in process, technology, or innovation. Holding onto outdated processes can prevent us from moving forward. Instead, we must embrace change, adapt to new challenges, and position ourselves for future success. For us, progress often requires difficult decisions. We've had to let go of outdated methods, refine our services,

and embrace new technologies to remain at the forefront of product testing.

We don't hold onto limitations—we break through them. The addition of advanced testing facilities has expanded our capabilities, allowing us to provide comprehensive testing solutions that help products reach the market faster and safer. Just as we have evolved, we must constantly adapt. Don't be afraid to let go of what no longer serves you. Whether it's an outdated product, an inefficient process, or a limiting mindset—change is the key to unlocking better opportunities. At Envitest Lab, we don't just test products; we help shape the future of innovation. Because some things have to end for better things to begin.

#### Special points of interest:

- Envitest Lab is undergoing **reorganization and renovation** to enhance the customer experience and expand its testing capabilities.
- Envitest Lab is strengthening its focus on **customer delivery and execution** through improved teamwork and efficiency.
- Envitest Lab has successfully completed **testing on a full UAV**, a first-of-its-kind achievement.

### Knowing When to Move Forward: The Key to Progress

At Envitest Lab, progress means knowing when to adapt. Here's when it's time to rethink and improve testing:

1. When a Test No Longer Serves the Product: If a method doesn't provide relevant insights, upgrading to advanced testing ensures better results.

2. When Standards & Priorities Change: Industry regulations evolve—sticking to outdated protocols can slow progress. Adapting keeps products market-ready.

3. When New Data Offers a Better Approach: Testing reveals insights that may require strate-

gy shifts. Embracing change leads to stronger, safer products.

At Envitest Lab, we are committed to precision, progress, and performance. If your product needs advanced environmental, reliability, or compliance testing—we're here to help you make it happen!

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## Ensuring Enclosure Integrity: Sealing Test Capabilities at Envitest Lab



At Envitest Lab, the sealing test evaluates an enclosure's ability to prevent the ingress of dust, moisture, or gases.

Ensuring the integrity of enclosures is essential for protecting sensitive components from environmental exposure. At Envitest Lab, we specialize in sealing tests to verify that enclosures can withstand external elements like dust, moisture, and gases, ensuring long-term reliability and compliance.

Our testing capabilities include pressure tests, vacuum tests, dye penetration tests, and bubble

tests. The pressure and vacuum tests assess an enclosure's ability to prevent air leakage, simulating real-world conditions. The dye penetration test identifies microscopic seal defects, while the bubble test visually detects leaks by submerging enclosures in water.

These tests are critical for industries such as aerospace, medical devices, electronics, and industrial equipment. By rigorously

evaluating sealing performance, Envitest Lab helps manufacturers enhance product durability, meet regulatory requirements, and minimize the risk of failure in harsh conditions.

With a commitment to precision and quality, our lab ensures that enclosures perform optimally. Our expertise supports industries in delivering robust and reliable products, reinforcing their commitment to safety.

*To cater to different industry needs, Envitest Lab employs multiple sealing test methodologies, each designed to evaluate enclosure integrity under different conditions.*

## Sealing Test Methods at Envitest Lab

Envitest Lab conducts various sealing tests to ensure enclosures provide reliable protection against dust, moisture, and gas ingress.

1. Pressure Test – Air is pressurized inside the enclosure to detect leaks. Ideal for industrial control panels and electronic housings requiring airtight seals.

2. Vacuum Test – A vacuum is created inside the enclosure to check for air ingress, ensuring enclosures maintain low-pressure environments, crucial for aerospace and medical applications.

3. Dye Penetration Test – A special dye is applied to the seal area, and any visible leakage indicates micro-leaks, commonly used for high-precision devices.

4. Bubble Test – The enclosure is immersed in water while pressurized, and escaping bubbles reveal leaks, widely used in automotive and medical industries.

With advanced testing capabilities and process, Envitest Lab ensures enclosures meet strict industry sealing standards for reliability and durability.

## Ensuring Seal Effectiveness with Advanced Leak Detection at Envitest Lab



Sealing tests are crucial for evaluating the integrity of enclosures with internal cavities containing air, gas, or a vacuum. A defective seal can allow dust, moisture, or contaminants to enter, leading to component failure. At Envitest Lab, our sealing tests detect leaks caused by poor sealing materials or manufacturing defects, ensuring products meet stringent quality standards.

The primary objective of a sealing test is to verify the integrity of an enclosure's seals to prevent any unwanted ingress of external contaminants. This is critical for ensuring the reliability and longevity of the product in its intended operational environment.

We adhere to industry standards such as MIL-STD-810, IEC 60068, JSS-55555 and many such standards

ensuring compliance and reliability. Our test setup, expert technicians, and methodologies provide manufacturers with precise and dependable results.

By partnering with Envitest Lab, one can enhance product reliability, meet regulatory requirements, and minimize failure risks. Trust Envitest Lab to ensure enclosures meet the highest quality standards.

## Envitest Lab at Aero India 2025: A Testament to Our Contribution

Aero India 2025 was a proud and defining moment for Envitest Lab, as we witnessed several products that underwent our rigorous testing on display at the event. Seeing these validated and certified components integrated into defense and aerospace systems reinforced our role in supporting India's technological advancements and defense capabilities. The event highlighted India's

push toward indigenous manufacturing and self-reliance, showcasing innovations driven by the Make in India initiative. As a leading testing and certification partner, Envitest Lab aligns with this vision by ensuring that aerospace and defense products meet the highest industry standards.

From Environmental, and Structural Testing to compliance with MIL-STD and DO-160 standards, our

expertise plays a vital role in validating mission-critical technologies. Aero India 2025 reaffirmed the nation's commitment to aerospace innovation and defense modernization, and we are proud to be part of this transformation.

As we move forward, Envitest Lab remains dedicated to advancing global aviation standards through cutting-edge testing solutions, supporting India's journey.



## Envitest Lab Renews DGAQA Approval Until 2027

Aero India 2025 was a landmark event for Envitest Lab, as we proudly received our Directorate General of Aeronautical Quality Assurance (DGAQA) approval until 2027. This prestigious recognition reinforces our commitment to delivering high-quality aerospace testing and certification services, further solidify-

ing our role as a trusted partner for the defense and aviation sectors.

With years of expertise in Testing, Envitest Lab has been instrumental in evaluating aerospace components that ensure operational reliability under extreme conditions. Our extensive work spans Military, Aerospace, and Defense industries, where we

rigorously test products for durability, stress screening, compatibility, and structural integrity.

As we move forward, Envitest Lab remains dedicated to pioneering advanced testing solutions, ensuring that aerospace technologies meet the highest industry benchmarks for safety and performance.

*Envitest Lab participated in Aero India 2025 and the Auto EV Expo in Chennai, demonstrating our expertise in aerospace and automotive testing, with tested products on display, reaffirming our commitment to quality, safety, and innovation in both industries.*

## Envitest Lab at Auto EV Expo Chennai: Advancing Automotive & EV Testing

Envitest Lab was proud to participate in the Auto EV Expo in Chennai, a premier event showcasing the latest advancements in electric vehicles (EVs) and automotive technology. As the industry shifts towards sustainable mobility, our role in testing and validating EV components, batteries, power electronics, and vehicle safety becomes increasingly crucial.

The expo provided an excellent platform to engage with automotive manufacturers, innovators, and policymakers, reinforcing our commitment to ensuring the reliability, safety, and performance of EV technologies. Our expertise in Testing enables automakers to meet global safety and regulatory standards, supporting the development of efficient and durable solutions.

With India's push towards electrification and green mobility, our testing services play a role in enhancing performance and consumer safety.

As the industry evolves, Envitest Lab remains dedicated to supporting the next generation of electric and hybrid vehicles, helping manufacturers bring innovative, high-quality, and safe EV solutions.





## Empowering Products

NABL Accredited Laboratory  
DGAQA Approved Lab  
TEC Recognized Lab

info@envitestlab.com



WE'RE ON THE WEB!

www.envitestlab.com

### Our Services

- ◇ Climatic Simulations
- ◇ Dynamics & Vibration
- ◇ Contamination and Ingress
- ◇ Materials / Metallurgical Testing
- ◇ Aircraft Electrical Testing
- ◇ Electrical Safety Testing
- ◇ Optical Fibre Cable Testing
- ◇ Telecom Interface Testing
- ◇ Electrical Cables and Connectors Test
- ◇ International Approvals
- ◇ Customized Tests
- ◇ Engineering Services

#### Envitest Lab - Bengaluru Test Centre

No.14-1510, Maruthi Timber Road, Garvebhavi Palya, Hosur Road, Bangalore – 560068, Karnataka, India.  
080 42171044 | +91 9606075771 |

#### Envitest Lab - Coimbatore Test Centre

KEnTEc, C/o Kumaraguru College of Technology, Chinnavedampatti, Coimbatore, TN – 641049  
+91 9606080881

#### Envitest Lab - Chennai Test Centre

No.27, Medrospuram Ind. Est., Maraimalai Nagar, Chennai, TN – 603204  
+91 9606080882

## About Envitest Lab

**OUR VERTICALS**

- TESTING
- CERTIFICATION
- INSPECTION
- ENGINEERING

Working tirelessly behind the scenes to guarantee product success

ENVITEST Lab abbreviated for “ENVIRONMENTAL TESTING”, established in 2017 at Bangalore Electronic City, is a ISO/IEC 17025 certified company with an objective to offer high-quality testing, inspection, pre-compliance, certification, and engineering services for the across the globe products.

We serve across domains products for the compliance and certifications. Over time we kept on add-

ing the new testing facilities to bring more opportunities for growth but would allow to provide a more complete portfolio of testing solutions to our customers. From our humble beginnings, we have grown from a simple test house who worked on the world’s most complex engineering projects to become a leading test lab of standard and custom test services. Throughout our journey to become one of the premier worldwide service providers of testing solutions, we have held true to the philosophy that the customer comes first.

Our Disciplines -

**Electronics and Electrical Product Test** covering Optic fibre, electrical connectors for

automotive and MIL, Aircraft electrical characteristic, Product safety, Product performance, Product susceptibility test.,

**Telecom Product Test** covering telecom products which covers PON and GPON Test, Interface Test, EMI/EMC test, Router and Switches and many more.

**Environmental Test** for Any Product covering - Shock and Vibration, Bump, Thermal, Humidity, Damp Heat, Cold Hot temperatures, thermal shock, Ingress protection, dust, water, contamination, fungus, Ultraviolet UV, salt and acidic corrosions and many more.