



Product Service

**Choose certainty.  
Add value.**

## Pre & Post Shipment Inspection, Packaging Testing & Supply Chain Auditing

### **Joining the long haul to product compliance**

As part of the TÜV SÜD Group we are a world leader for compliance services with laboratories & offices in 600 locations around the world. TÜV SÜD has an annual turnover in excess of 1.1 Billion Euros with over 11000 employees.

Working in partnership with TÜV SÜD Product Service can add value to your industry offering and providing you with a competitive edge. Retailers and manufacturers are looking for a total solution for both transportation and compliance services. By combining our expertise, we can reduce time to market and provide a seamless and safe route to the consumer.

We can add extra dimensions to your service by providing Post shipment inspection, Packaging Testing and Supply Chain Auditing.

### **Pre and Post Shipment Inspection (PSI)**

Protect your clients from the pitfalls of International trade by conducting an independent PSI assessment. Ensure that what they actually receive is what they were expecting!

Independent trained inspectors assess quality, packaging, marking and labelling, audit against the purchase orders and

check to ensure that mandatory requirements are satisfied, e.g. CE marking. We are able to get our teams into the most remote locations quickly and cost effectively. For post shipment inspections in the UK you can take advantage of our mobile laboratory. Not just a man in a van, but a fully equipped test facility.

### **Supply Chain & Ethical Auditing**

Are your clients' suppliers capable, legal and ethical?

Our teams of auditors ensure that you can be confident. We are experts in all major areas of consumer products and audit in accordance with National and International standards. This can be arranged via our UK office; no more early morning calls to the Far East. One call to your UK based account manager and we will do all of the arrangements.

### **Packaging Testing**

TÜV Product Service provides technical consultancy, testing and certification services for the testing of product packaging. This service evaluates the performance of packaging, and the level of protection it provides to products in transit or storage.

In addition to being a UKAS accredited laboratory, we are accredited by ISTA to advise and certify that packaging complies with the latest ISTA specifications.

TÜV Product Service Ltd  
TÜV SÜD Group



Product Service

[www.tuvps.co.uk](http://www.tuvps.co.uk)

As part of our testing programmes, we can determine how the packaging performs, not just mechanically, but how it is affected by different environmental and climatic conditions, thus reducing the risk of damage to goods in transit or storage. We can also advise on where savings can be made by removing unnecessary packaging in order to save costs, weight and reduce the environmental carbon foot print.

#### **Shock testing**

Our mechanical laboratory has a unique set of facilities designed to test the robustness of packaging. We have several shock machines as well as a side impact machine, a compression machine, a precision drop tester, and dedicated bump and bounce facilities.

#### **Shock capability includes**

- Free Fall
- Bump
- Drop Topple and stability
- Bounce
- Static load
- Compression
- Bending
- Racking

#### **Vibration**

We have a range of hydraulic and electromagnetic shakers covering a frequency range of 1Hz to 3kHz with up to 150kN of thrust. In addition we can condition test samples during vibration between +71°C and -46°C. Unique features include large shakers

set into the floor which reduce set up time and provide a safer working environment. We can also decouple the slip table on the 150kN machine and drive the table via fixture for particularly large or long test samples.

#### **Vibration capability includes**

- Sinusoidal
- Random
- Sine on random
- Swept sine on random
- Gunfire
- Shaker induced shock including SRS

#### **Climatic Testing**

The climatic chambers vary in size from 1m<sup>3</sup> to 120m<sup>3</sup> with a temperature range of -65°C to +205°C. Each chamber is capable of controlling humidity between 5% and saturation. Every effort has been made to make the testing process easier for our customers with 60Hz, 400Hz, 415V and generator fed outlets available throughout the laboratory.

#### **Other climatic tests include**

- IP Testing
- Thermal Shock
- Driving rain
- Drip testing
- Ice loading
- Immersion
- Temperature, Humidity and Altitude
- Reliability demonstration
- Low temperature
- High temperature
- Damp heat

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