MEDICAL ENGINEERING TECHNOLOGIES

Engineering and Scientific Solutions

Package Shipping Validation

At MET we validate packaging systems according the requirements of ISO 11607-1:2006, Packaging for terminally sterilized medical devices. Requirements for materials, sterile barrier systems and packaging systems

MET's transport validation protocol is suitable for medical pouches and blisters produced in from any substrate.

Testing is usually applied to a complete shipping carton of products. The shipping simulation processes subject the package to the rigours of transport and storage.

In the basic test we report on carton performance. Products can be further tested at MET or in your own QA laboratory to assess their resistance to shipping. The internal packaging can also be subject to our integrity and seal strength testing.

We offer a choice of ASTM or ISTA testing protocols and variety of preconditioning regimes:

- Desert
- Tropical
- Ambient / Wet
- Artic / Frozen
- Combination of preconditioning environments

Pricing is dependant upon sample sizes and package sizes.

Testing Details (Typical)

Shipping simulation to ASTM D4169-05 Standard Practice for Performance Testing of Shipping Containers and Systems.

- Air transport – long haul
- Initial manual handling – ASTM D332-1, schedule A
  - Drop on each side from 15 inches – visual inspection
- Vehicle stacking - ASTM 642-00, schedule C
  - Calculate stacking load, compress – visual inspection
- Loose load vibration – ASTM D 999-01, schedule F
  - Vibrate at 40Hz for 40 minutes, turning twice – visual inspection
- Vehicle vibration – ASTM D 4782-01, schedule E
  - 2 – 200Hz at RMS 0.52G for 180 mins, turning twice – visual inspection
- Final manual handling – ASTM D 5725-98, schedule A
  - Drop each side from 15" and base 30", x 2 - examined by visual inspection

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