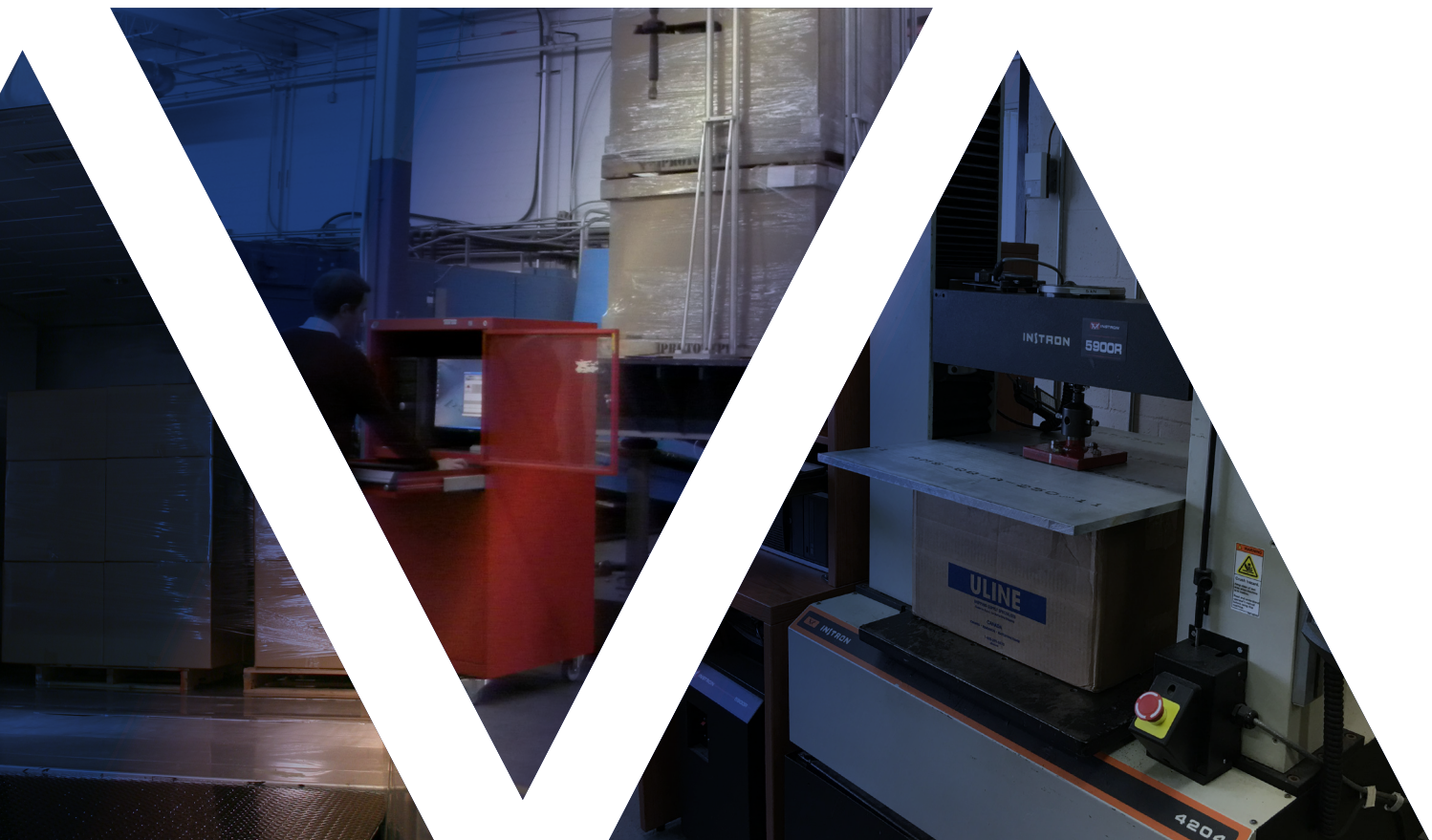


# PACKAGE TESTING LABORATORY

*since 1999*

*Improving packaging sustainability one test at a time*  
ISTA and ISO 17025 Accredited



*Micom Laboratories, established in Montreal, Quebec, since 1999 is an ISO 17025 accredited laboratory. We offer a full range of product and material testing services.*

*Our promise: Beyond testing, we will advise you in selecting the right test methods and conditions to obtain meaningful results addressing your specific needs. Our team will also assist you in finding effective solutions.*

## PRE-SHIPMENT TESTING

### A Scientific Approach to Packaging Problems

Micom Laboratories offer quality pre-shipment test services and much more. Our experts will be happy to discuss your requirements and help you decide which tests are most suitable. We work according to specific test protocols but also design custom test programs that produce data for advanced analysis. We also review package damages and help find cost-effective solutions. Our experts are members of the ISTA Technical Council and as such are well in tune with the new testing trends and prevalent test procedures.

«BETTER  
PACKAGING  
THROUGH  
TESTING»

## Serving a Wide Range of Industries

Micom offers pre-shipment test services to a wide range of industries both in Canada and the USA, including:



- **PHARMACEUTICAL.** Some of our customers include: GSK Biologics, Genentech, Covidien



- **FOOD.** Some of our customers include: Kraft, Danone



- **INDUSTRIAL.** Some of our customers include: Teknion, ABB, Akzo Nobel



- **ELECTRONICS.** Some of our customers include: Siemens, Smart Technologies, Nautel



- **AUTOMOTIVE.** Some of our customers include: Volvo Group, Bombardier Recreational Products

## Recognized Testing Laboratory

Micom is a recognized source of laboratory testing services by major businesses and organizations across Canada and the USA, such as:

- ISTA
- Transport Canada
- Standards Council of Canada
- Pharmaceutical Industry
- World Health Organization (WHO)
- Commodity Classification Standards Board (CCSB)

Our test reports are recognized by most large North American retailers as we are an ISTA accredited laboratory and operate a quality control system that is ISO 17025 compliant.

## Conformance to Canadian and US Standards

Our tests are carried out with the highest regard for quality and control, in conformance to all Canadian and US test methods, including:

- International Safe Transit Association (ISTA) - for all test methods
- American Society for Testing and Materials (ASTM) - D-4169 and many others
- HAZMAT/UN Recommendations
- Canadian General Standards Board (CGSB)
- US Military Standard (MIL-STD)
- Sears US
- Commodity Classification Standards Board (CCSB)

## Frequently Used Test Methods

- ISTA 1A
- ISTA 3A
- ISTA 3B
- ISTA 6-Samsclub
- ASTM D-4169
- ASTM D-5276
- ASTM D-880
- ASTM D-6179
- ASTM D-6055
- TP 14850
- ISO 11607

## State-of-the-art Equipment

Our pre-shipment test equipment:

- Random vibration tester (5000 lbs)
- Incline impact tester (Conbur)
- Drop tester
- Mechanical shaker
- Compression testers
- Climatic chambers
- Clamp tester
- Altitude chamber
- Data loggers

## BEYOND PACKAGING TESTING

### A Scientific Approach to Packaging Problems

Micom Laboratories' offer goes well beyond package testing; we can test your product and/or packaging for temperature and humidity cycling, ultraviolet exposure, surface finishes, isothermal packaging or mechanical properties. Our material testing experts will be happy to help you put together a meaningful test plan that will address your needs and give you real answers.

With years of specialized technology testing expertise, in-depth experience and absolute commitment to customer care, our team of experts does more than simply test your products. Micom Laboratories strives to deliver material testing services of outstanding value to our diverse customer base.

### Made-to-measure Material Testing

Micom offers a wide variety of mechanical and physico-chemical material testing according to various standards, such as ASTM, CGSB, ISTA, ANSI, CSA, ISO and many others. Our specialists can also provide you with made-to-measure material tests, focused on your specific needs.

### *Raw Materials & Finished Products Testing*

Our know-how and our facilities allow us to test a wide range of raw materials and finished products. Whether you need cold chain testing, consumer products, composite materials, or accelerated aging, we are always available to support your technical needs.

### *Prototypes and Simulated Use Testing*

Our facilities are also equipped to test prototypes, simulate intensive use of products and materials either to validate your design or investigate a field failure. Our quality control system complies with ISO 17025.

### *Cold-chain testing*

Micom also offers cold chain testing, often required by the pharmaceutical and the food industry. We work with most of the largest pharmaceutical companies in the world.

## **MATERIAL TESTING “À LA CARTE”**

- Tensile Strength - ASTM D-638, D-412, D-882...
- Compressive Strength - ASTM D-695, D-2990, D-4762
- Flexural Strength - ASTM D-790
- Foam - ASTM D-3574
- Latex - ISO 10282 & 11193
- Moisture Absorption - ASTM D-570
- Particle Board Testing - ASTM D-1037
- Specific Gravity - ASTM D-792

### Climate Exposure:

- Climatic chambers - Humidity, temperature cycling
- -73°C to +150°C, 10 - 95% RH
- U.V. exposure - ASTM G-155, G-154
- Salt spray - ASTM B-117, G-85
- Accelerated temperature aging
- Field failures laboratory simulations
- Thermal shocks
- High & low temperature tensile & compression tests
- Long term exposure for stability studies

### Other Tests and Services:

- Various flammability tests
- Computer data acquisition and control
- Custom testing
- Hazardous Products act (e.g. testing of lighters)
- Research and development
- Other ASTM test methods

# «MICOM: YOUR TEST LAB WHEN IT COUNTS»

«OUR BUSINESS:  
PROVIDING RESULTS  
AND VALUE»

