

# Medical Adhesive Solutions From Mactac®

*Time-tested and Trusted.  
Perfect Performance  
and Peace of Mind.*



## Roll Label

PSA-coated papers and films in roll-to-roll form. Extensive product options, available customization, varying roll lengths and widths, and customer friendly services, like our Mactac Precise<sup>SM</sup> Program, which offers a precise amount of material needed for small runs and limited applications.

[www.mactac.com/rolllabel](http://www.mactac.com/rolllabel)

## Medical Adhesive Solutions.

The healthcare industry requires suppliers to develop trusted, flawlessly performing solutions to meet the latest technology and process requirements, and medical labeling solutions are no exception.

Medical labels must perform under a range of challenging conditions, from sticking to a small diameter vial to withstanding the force of a centrifuge, and yet not tear through a technician's gloves. Performance is essential, making the adhesive the key component of medical laboratory labels.



## Critical Component: The Adhesive

For more than 50 years, Mactac® has engineered adhesive technologies to answer the diverse labeling demands of the medical industry, specializing in laboratory, general medical and prescription labeling solutions.

Mactac's ST-95 adhesive, the most widely used and most trusted adhesive for medical labeling applications, and Mactac's high-performance XT-99 aggressive high tack adhesive, are designed for the most demanding applications.

### Mactac ST-95 Permanent Acrylic Adhesive

- Strong ultimate bond to withstand rigorous handling and test conditions
- Excellent, mandrel hold, even on small diameters with the recommended facestock
- Good open time to allow for repositioning misplaced labels
- Glove-friendly properties to eliminate tearing medical gloves, protecting the safety of diagnostic technicians and health professionals
- Latex free

### Mactac MP910 Permanent Acrylic Adhesive

- Excellent adhesion to most plastic substrates used in prescription labeling.
- Glove-friendly properties
- Latex Free
- Excellent open time to allow for repositioning misplaced labels
- Patented Non-Ooze adhesive

### Mactac XT-99 High Tack Permanent Acrylic Adhesive

- Excellent mandrel hold on very small diameters with the recommended facestock
- Aggressive adhesion for the most demanding applications, including some treated plastics
- Strong ultimate bond to withstand rigorous handling and test condition
- Glove-friendly properties

## Addressing Application Needs

Your labels will set you apart from the competition because Mactac adhesive solutions are engineered to exceed quality and performance expectations and give you the flexibility to create labels that provide superior form and function for a variety of applications in the medical laboratory environment.

### Diagnostic Laboratory Labeling

Laboratory labeling solutions adhere well to glass and polypropylene, making them suitable for labeling test tubes, vials, syringes, specimen containers, petri dishes and slides, when paired with recommended facestocks.

- Excellent resistance to moisture, alcohol and a variety of chemicals
- Choice of direct thermal and thermal transfer to support on-demand printing of patient information
- Choice of paper and film facestocks
- Choice of ST-95 and XT-99 adhesives on most facestocks

### Patient Identification and Medical Records

Patient information labeling solutions are used throughout hospitals and laboratories for on-demand printing of admittance labels, medical record labels, file folders and pressure-sensitive wristbands.

- Choice of thermal transfer and laser printable labelstock
- Choice of paper and film facestocks
- Choice of several direct thermal printable films, ensuring wristband durability and

flexibility

- Choice of ST-95 and XT-99 adhesives on most facestocks, as well as patented non-ooze adhesive on laser stocks

### Prescription Labeling

Prescription labeling solutions are used in hospital and retail pharmacies and are designed to withstand application to prescription bottles, as well as a range of environmental conditions during end-use.

- Outstanding resistance to heat, moisture and humidity, alcohol and a variety of chemicals with no overprint varnish
- Excellent image density to prevent fading
- Medium to high thermal sensitivity

### Cryogenic Labeling

- Superior adhesion to small diameter containers such as test tubes and ampules
- Resists edge lifting when repeatedly subjected to freeze/thaw (changes between low and high temperatures) such as removal from liquid nitrogen.
- Reliable identification of laboratory labels that undergo long-term storage in extremely cold temperatures, such as storage in liquid nitrogen

## Understanding the Environment

Medical labels are subjected to more environmental stress than ever. Understanding the variety of environmental conditions and procedures your label may undergo is imperative for you to select labelstocks that will perform well and give your end users ensured reliability.

Mactac's medical adhesive solutions meet a range of demanding environments:

**Testing Procedures.** Our medical labels are designed to undergo strenuous testing procedures, like the force of a centrifuge and water baths for films.

**Contaminants and Fluids.** Most of our medical label products have excellent resistance to blood, alcohol, oils, fats, plasticizers and other chemicals. Our infrared scannable, topcoated direct thermal paper stock will scan through contamination from blood and tissue.

**Handling.** Mactac® medical labels are glove-friendly for technician handling and are developed to address the increased use of automated handling devices for labeled products.

## Printing and Scanning Compatibility

The ability to add variable information about testing data, patient identification or container contents is important in many medical label applications.

Mactac has medical labelstock products that support direct thermal and thermal transfer printing. These labelstocks support all the common bar code symbologies used by medical testing facilities, including:

- Code 29
- Code 128
- Interleaved 2 of 5
- 2D barcodes

In addition, Mactac has direct thermal products that support virtually any scanning equipment used in medical laboratories today. We offer direct thermal products that support a range of wavelengths, from visible to infrared light, including near infrared wavelengths. Our topcoated thermal transfer papers and films are compatible with today's wax, resin and hybrid ribbons.

## Regulatory Compliance

To assist you in addressing end-use concerns regarding leading medical industry regulations, Mactac medical labels meet the following requirements.

Coalition of Northeastern Governors (CONEG) and European Union Directive. All Mactac medical labelstocks comply with CONEG Model Toxic Legislation and the European Union Directive 94/62/EC.

Latex Free. All Mactac medical labelstocks are free of rubber-based latex.

## A Solution for Your Application

These are general recommendations based on Mactac's extensive experience in engineering pressure-sensitive solutions for the medical industry. Each application should be thoroughly evaluated and tested. Please contact your Mactac Account Manager, or call us at 800.548.3456 to discuss your specific application.



# Medical Adhesive Solutions From Mactac®

Properties	Top-coated Direct Thermal	Direct Thermal Prescription	Infrared (IR) Scannable Direct Thermal	Near (IR) Infrared Scannable Direct Thermal	Direct Thermal Film	Thermal Transfer Paper	Thermal Transfer Film	Laser
<b>Stock Products/Adhesive Information-Minimum Application Temperature &amp; Service Range</b>								
<b>General Purpose Permanents</b>								
<b>ST95</b> +25°F (-4°C) App -75° F to +200° F Range (-59°C to +93°C)	DTM9502NB	DDRX9502	DTR9502 DTR9502TR	DNR9502	DBH9501 DPI9501	TT9502	DSS9501 TL9502	
<b>XT99</b> +25°F (-4°C) App -75° F to +200° F Range (-59°C to +93°C)	DTM9902NB		DTR9902 DTR9902TR		DPI9901			
<b>XT100</b> +25°F (-4°C) App -75° F to +200° F Range (-59°C to +93°C)	DTM9600NB-52					TT9601	TL9601	
<b>Cryogenic</b> 50°F (+10°C) App -320°F to 212°F Range (-196°C to +100°C)					LTC01475		LTC01469 LTC01454	LTC01483
<b>MP910</b> +25°F (-4°C) App -75° F to +200° F Range (-59°C to +93°C)								LAS1812RX
<b>LT20</b> +32°F (0°C) App -40° F to +200° F Range (-40°C to +93°C)								LAS0912RX

## Applications

Products listed below are recommended for testing for your specific application. As with any application, it is up to the end user to determine suitability for use.

**Test Tubes, Petrie Dishes, Slides** - DTM9502, DTR9502, DNR9502 for Direct Thermal Paper Labels & DBH9501 or DPI9501 for when film is needed due to excessive moisture or chemicals. Test for suitability.

**Incubation** (40°C and 90% RH for 10 days) - DTM9502, DTM9902.& DTM9601 Longer than 10 days must use Thermal Transfer TT9502, TT9601

**Prescription Labeling** - DDRX9502 for Direct Thermal printing, LAS1812RX for permanent Dual Web Laser applications and LAS0912RX for short term removable Dual Web Laser Applications

**Medical Records** - LAS1812

**Cryogenic** - LTC01469 and LTC01454 for Thermal Transfer printing, LTC01475 for Direct Thermal printing, and LTC01483 for Laser printing

**Glove Friendly** - ST95, XT99,XT100 & MP910 Adhesives are all considered to be hospital Glove Friendly

