

# Cryogenic labels for tubes and vials.

ENSURE OUTSTANDING PERFORMANCE  
IN THE COLDEST ENVIRONMENTS

Labels that endure lowest frigidities to ensure your lab maintains the highest degree of science-supporting integrity.

## Cryogenic Freezer Labels

Performs to  $-80^{\circ}\text{C}$ . Solvent resistant. Available pre-printed, blank for print-on-demand, or pre-printed and applied for you through Labware Prep™.

- TS502 — For application at room temperature on glass containers larger than 15 mm in diameter.
- TS864 — For application to plastic containers larger than 15 mm in diameter with a surface temperature no lower than  $-7^{\circ}\text{C}$ .

## Cryogenic Liquid and Vapor Phase Nitrogen Labels

All the same features as our freezer labels, but capable of performing at temperatures as low as  $-196^{\circ}\text{C}$ . Available in wrap-around or non-wrap-around formats, blank, pre-printed, or pre-printed and applied for you.

- TS1138 — Specifically engineered for applying to frozen plastic or glass with a surface temperature as low as  $-80^{\circ}\text{C}$  and storage down to  $-196^{\circ}\text{C}$ .\*
- TS976 — For plastic or glass stored at nitrogen vapor phase down to  $-150^{\circ}\text{C}$ .
- TS994 — For plastic or glass containers larger than 15 mm in diameter stored down to  $-196^{\circ}\text{C}$ .
- TS1113 — Features a 360° clear laminate overwrap to help protect the printed image from abrasion or brief contact to chemicals. For glass or plastic stored down to  $-196^{\circ}\text{C}$ .



## Only available through Labware Prep™:

We offer additional marking technologies that are only available pre-applied to your labware through our custom labware preparation service, Labware Prep™. The best marking technology for your specific needs is used to print, to your specifications, directly to the surface of your labware. Because no adhesive is used, the risk of adhesive labels falling off is eliminated.



### CURED INK

Barcodes and other markings applied using specially cured inks directly to glass or plastic labware. Performs to  $-196^{\circ}\text{C}$ .



### LASER

Barcodes and other markings applied by laser directly to glass or plastic labware. Performs to  $-196^{\circ}\text{C}$ .



### FUSED

Imaged material permanently bonded to glass. Offers durability at any temperature your labware can withstand.



### CERAMIC MARKERS

Imaged ceramic material permanently bonded to glass. Offers ultimate durability at nearly any temperature.

\*For best adhesion to frozen vials it is recommended that any frost or condensation is wiped from the vial prior to labeling.

## COMPUTYPE CRYOGENIC LABEL MATERIALS

LABEL MATERIAL	TS1138	TS976	TS994	TS1113	TS502	TS864
Temperature Threshold	-196°C	-150°C	-196°C	-196°C	-80°C	-80°C
Application Temperature Range	-80°C to 27°C	-18°C to 27°C	-29°C to 27°C	-5°C to 27°C	10°C to 27°C	-7°C to 27°C
Glass or Plastic	Both	Both	Both	Both	Glass	Plastic
Applying at Cold Temperatures	Yes (down to -80°C)	Yes (down to -18°C)	Yes (down to -29°C)	No	No	No
Freezer Stored	Yes	Yes	Yes	Yes	Yes	Yes
Liquid Nitrogen	Yes	Yes (vapor phase only)	Yes (After 15 mins dwell-time)	Yes	No	No
Pre-printed or Print-on-Demand	Both	Both	Both	Both	Both	Both
Recommended for Very Small Diameter Labware	Yes	Yes	No	Yes	No	No
Special Notes	Not compatible with automated label applicators	Also available as a kit in common sizes with print ribbon		Clear laminate overwrap construction Also available as a kit in common sizes with print ribbon		Also available as a kit in common sizes with print ribbon

### Do not apply labels to a frosted surface

Cryogenic labels are meant to withstand extreme cold and frost, but that does not mean they can be applied to any surface. Labels may adhere initially, but issues may arise later in your processes if the surface is not properly prepared. When a label is applied to a frosted surface it is not adhered to the container, but rather to the frost. When this layer melts, the adhesive will lose grip potentially causing the label to fall off. To prevent this, **completely wipe the frost/moisture away from the sample container with an absorbent cloth or paper towel and immediately apply the label.** To aid in creating a moisture-free surface, some labs dip sample containers into isopropyl alcohol after removing the majority of frost, then wipe them dry prior to applying labels. Yet another method is to use compressed air to remove any residual moisture. Using a label that wraps around the vial more than 360° and sticks back onto itself is also recommended where possible.

#### FORMIDABLE LAB ENVIRONMENT, MEET FORMING A PARTNERSHIP THAT MAKES THE GRADE.

From printers to scanners to label replication systems, Computype can equip and provide solutions for you no matter the challenges of your lab environment. Over the past twenty years, we've put our labels and adhesives through endless tests to prove they can keep up with lab demands of your laboratory.

#### WE'D LOVE TO HEAR FROM YOU.

Computype  
2285 West County Road C  
St. Paul, MN 55113-2567

Twitter: @computype  
Email: sales@computype.com  
Fax: 651-633-5580  
Phone: 800-328-0852 | 651-633-0633  
[computype.com](http://computype.com)