

# 8000D UltraCool

## Direct Thermal Label Can Withstand Temperatures Down to -80°C

The reliable identification of micro-organisms, serum, biological components and lab samples in ultra-low temperature freezer environments is vital to ensuring accurate medical research and efficient laboratory processing. Only select labels can withstand ultra-low temperature environments. If the label becomes unreadable or missing, it can impact the success of a clinical trial, or lead to specimen and sample wastage and the need to re-collect and test samples – potentially delaying patient diagnosis and treatment. Zebra's 8000D UltraCool is a direct thermal material that does not require the use of a ribbon to create an image, designed to meet this challenging environment. It features a specialty low temperature adhesive for -80°C ultra-low temperature storage, ensuring critical assets remain identifiable until used, tested, or disposed of.



### Designed to maintain adhesion

The 8000D UltraCool label has been designed to maintain adhesion when exposed to temperatures down to -80°C, so the labeled items that require ultra-low temperature storage remain identifiable to staff. It is vital that labels remain in place to avoid costly duplication of specimen and sample processing and potential errors.

### Reliable readability

When the label is applied to containers that are stored in an ultra-low temperature freezer, the print will remain legible, ensuring visibility of the specimen identity over extended periods of time and for repeated inspections.

### Enable mobile printing with direct thermal material

Zebra's 8000D UltraCool label is a direct thermal material that does not require the use of a ribbon to create a durable image, enabling staff to easily implement mobile and bedside printing to work more efficiently. Staff can easily print labels at the point of care to minimize errors, enhance patient safety and allowing staff to effectively identify, track and manage samples. Printing is quick and easy, requiring only one supplies item as staff do not need to install a ribbon to print a durable image.

### Print Confident, Print Quality with Zebra Certified Supplies

Printing supplies can impact everything from printhead lifespan to operational efficiency. That's why we design, produce and rigorously pre-test our own line of thermal printing supplies to ensure consistent, optimized performance. We utilize an ISO 9001 certified, 23-point quality inspection to ensure consistent quality. No matter when you order your labels, you can count on the same great performance.

Reliably identify micro-organisms, serum, biological components and lab samples in ultra-low temperature environments with the 8000D UltraCool label. For more information, please visit [www.zebra.com/barcodesupplies](http://www.zebra.com/barcodesupplies)

# Specifications

Material Construction	
Facestock	Matte white topcoated polyolefin 76 microns
Adhesive	Permanent acrylic adhesive 21 microns
Liner	60 gsm glassine liner 49 microns
Total Thickness (+/- 10%)	146 microns
Environment	Indoor use, Ultra-Low Temperature compatible
Temperature Performance	
Minimum Application Temperature*	-10° C
Service Temperature Range	-80° C to 50° C
Recommended Printers and Ribbons	
Printers	Mobile, desktop, mid-range and high-performance thermal printers
Ribbons	N/A
Adhesive Strength	
Corrugate	N/A
Steel	N/A
Polycarbonate	N/A
Polyethylene	N/A
Chemical Resistance	
Weak Chemicals	
Blood	Test in your application
Body Fluid	Test in your application
Salt Water	Test in your application
Water	Test in your application
Window Cleaner	Test in your application
Moderate Chemicals	
Alcohol	Test in your application
Ammonia	Test in your application
Bleach	Test in your application
IPA	Test in your application
Harsh Chemicals	
Gasoline	Not Recommended
Grease	Not Recommended
Extreme Chemicals	
Acetone	Not Recommended
IR Reflow	Not Recommended
MEK	Not Recommended
TCE	Not Recommended
Xylene	Not Recommended

Product Performance & Suitability	
Recommended storage conditions	1 year duration when stored at 20° C at 50% RH
Expected life span in application	Indoor use, for 1 year+
Sample Part Number	SAMPLE33674
Material Testing in End Application	
The information contained in this document is to be used for guidance only and is not intended for use in setting specifications. All purchasers of Zebra products shall be solely responsible for independently determining if the product conforms to all requirements of their unique application.	
Warranty	
Supplies are warranted against defects in workmanship and materials for a period of 1 (one) year from the date of shipment. For the complete warranty statement, please visit: <a href="http://www.zebra.com/warranty">www.zebra.com/warranty</a> .	

## Markets and Applications

### Healthcare

- Medical laboratories and specimen labeling
- Labeling of samples subjected to freeze-thaw cycles
- Cold temperature applications. For use in ULT (Ultra-Low Temperature freezers), micro-organism labeling biological and micro-organism samples
- Medical sample labeling where mobile printers are used



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