

## Freezer and Ultra Low Temperature Labels

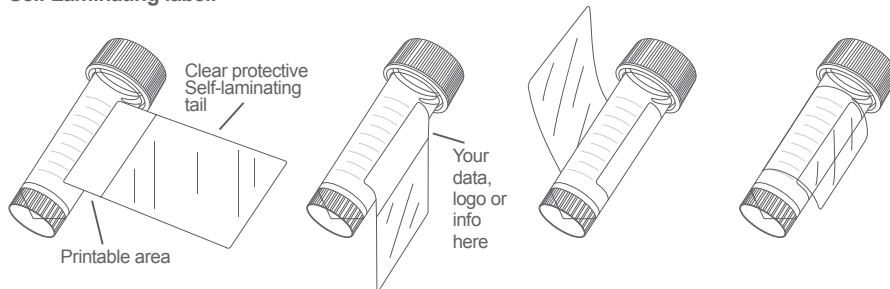
Technical datasheet



CILS Freezer and Ultra Low Temperature Labels are specifically manufactured to resist low-temperature laboratory storage and dry ice transit, especially on curved surfaces including vials and tubes.

The label range is available in several formats, and labels can be manufactured in any size, shape or colour, and in any label set configuration (e.g. cap and tube). Labels can be delivered blank or part-printed for data to be added on-demand using a laser or thermal transfer printer, or CILS can pre-print all variable data (patient ID, barcodes, expiry dates etc.) so labels arrive ready-to-apply.

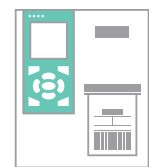
### Self Laminating label.



### Print Method



Laser  
Printable



Thermal Transfer  
Printable

## Summary Benefits

- Labels stay attached and data remains clear down to  $-196^{\circ}\text{C}$
- Secure adhesion to plastic and glass surfaces; flat or curved including a 'wraparound' label format for microvials and biological liquid straws.
- Perfect for all low-temperature processes, including pre-cooling alcohol, solvents and multiple freeze / thaw cycles.
- Ideal for all low-temperature transit and storage, including dry ice, conventional freezing and liquid nitrogen.

## Labels Material Chart

Description	General features	Colour	Material	Finish	Temp range	Adhesive	Print method	Print toner/ Ribbon	Material Code
All-Purpose Freezer Labels	All-purpose label, perfect for general lab usage and freezing. Excellent initial tack to polypropylene labware	White	Polyester	Semi-Gloss	$-80^{\circ}\text{C}$ to $+155^{\circ}\text{C}$	Permanent solvent acrylic, high-tack	TT	ARA Grade Ribbon	CILS-8100-APFL
				Matt	$-55^{\circ}\text{C}$ to $+155^{\circ}\text{C}$		Laser	Manufacturer's original toner	CILS-9100-APFL

Description	General features	Colour	Material	Finish	Temp range	Adhesive	Print method	Print toner/ Ribbon	Material Code
<b>Freezer Storage Labels</b>	Highly conformable label with excellent adhesion, that can be applied to stainless steel at -18°C. Perfect for plastics, kept at low temperatures.	White	Vinyl	Satin	-40°C to +60°C	Permanent acrylic	TT	ARA Grade Ribbon	<b>CILS-8100-FSL</b>
<b>Short Term Clinical Logistics Labels</b>	Economical durable label for short term permanent label applications, where long-term storage is not required.	White	Poly-propylene	Gloss	-80°C to +80°C	Permanent acrylic	TT/ Hand	DRD Ribbon / Indelible ink pen	<b>CILS-81000 -CLL/ST</b>
<b>Versatile Freezer Labels</b>	Versatile, solvent resistant, clinical logistics label for tubes and vials. Regularly used by CILS customers for sample transportation on dry ice and storage at -80°C. Ideal for multiple laboratory applications.	White	Polyester	Gloss	-40°C to +150°C	Permanent Solvent Acrylic	TT/ Hand	DRD Ribbon / Indelible ink pen	<b>CILS-8100-VFL</b>
<b>Long Term Storage Labels</b>	Ideal label for transportation of glass and polypropylene centrifuge tubes on dry ice at -80°C and for long term storage. Tested for: Thermal shock (-80°C to +100°C, 10 cycles); Liquid nitrogen cycling (-196°C to room temp, 5 cycles); Liquid nitrogen exposure (240hrs -196°C to room temperature). All passed with no delamination.	White	Polyester	Satin	-196°C to 150°C	Permanent solvent acrylic	TT	DRD Ribbon / Indelible ink pen	<b>CILS-8100-LTS</b>
				Matt			Laser/ Hand	Manufacturer's original toner/ Ball point pen	<b>CILS-9100-LTS</b>
<b>Ultra Low Temperature labels</b>	High-specification label with superior adhesion to all plastic and curved surfaces. Regularly used by CILS customers at -196°C - perfect for long term storage on tubes.	White	Vinyl	Semi-Gloss	-60°C to +95°C	Permanent Solvent Acrylic	TT	ARA Grade Ribbon	<b>CILS-8500-ULT</b>
<b>Ultra Low Temperature labels (Self-Laminating)</b>	High-performance durable labels with a printable area and clear, wraparound tail, protecting data and keeping labels secure on curved surfaces. Perfect for confidence in long-term, low-temperature storage labelling. Regularly used by CILS customers at -196°C.	White or colour-coded / clear	Polyester	Matt / Gloss	-40°C to +150°C	Permanent solvent acrylic	TT	ARA Grade Ribbon	<b>CILS-81000ULT/SL</b>
							Laser	Manufacturer's original toner	<b>CILS-91000ULT/SL</b>

### Important notes:

- For best results in cryogenic conditions, labels should be applied on clean dry surfaces at room temperature.
- Laboratory storage and use can vary significantly and customers should test samples in the intended environment.

**For formats, sizes and pricing please contact us.**



### How we work with you

Our consultative approach simplifies the process of sourcing durable labels. We work closely with you, and use our extensive industry knowledge to deliver the most appropriate label solution for your needs.



1. Understanding
2. Evaluation
3. Quotation
4. Approval
5. Manufacture
6. Aftercare

### Disclaimer

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