

# Label materials for Cold Chain Products



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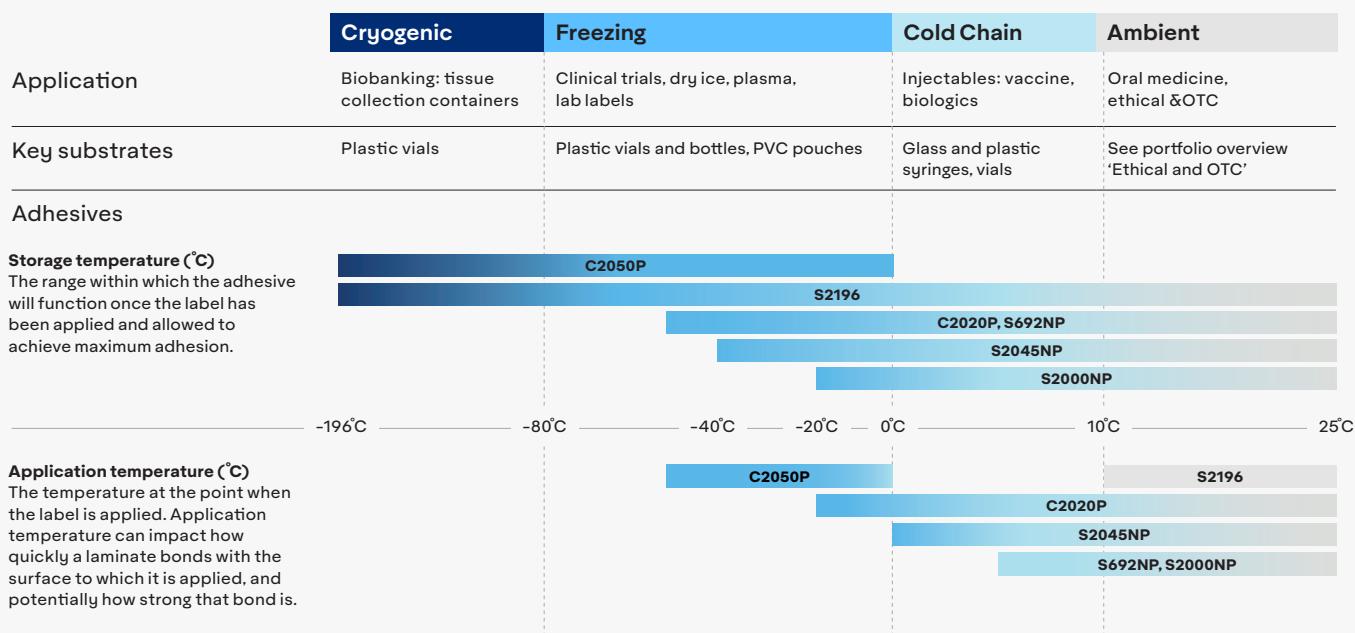
## Get high performance at the lowest temperatures

From vaccines to blood to tissue samples, there's a lot in the pharmaceutical and healthcare industries that have to stay not just cold, but extremely cold. Our Cold Chain Portfolio offers materials with the lowest application temperature available, specifically designed to hold fast during cryogenic and other low-temperature transportation and storage. Our facestocks remain legible under equally tough conditions, including low temperatures, warm-water bath (bain marie), sterilization, treatment with disinfectants, and more.

## Made to go wherever products go

Liquid nitrogen. Dry ice. Chemical disinfectants. Scalding water. Get adhesives that stay strong, and facestocks that remain legible, even in harsh conditions.

### Low temperature Pharma segments



**Designed for a range of containers and substrates.**  
Choose from a large selection of conformable materials that perform consistently on plastic Vaculettes® and small-diameter syringes, PVC blood bags, and more.

**Optimized for variable-information printing.**  
Print your way, with thermal transfer, UV inkjet, and others – even pen-and-ink.

## Key Features

- Application temperature as low as -50°C and storage in -196°C
- Good printability and conformability
- Compliant with all applicable U.S. and European regulations

## Applications

Hospital lab samples/Biobanking and blood bags/  
Vaccines and medications

## Product Overview

### Cryogenic and dry ice applications

Code	Product Name	MOQ (m <sup>2</sup> )	Lead time	Service temp. (°C)	Minimum application temp. (°C)	Autoclave Sterilization	Chemical Resistance	Small Diameter Applications (<15mm)	Manual Writing (Pen)	Thermal Transfer	Direct Thermal	UV Inkjet	Water-based Inkjet	Dry Toner	Laser Print
AZ452	PP Top White S2196-BG40WH	1,000	7 days	-196 to +120	+10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
LB897	PP Light Top Clear S2196-rPET30	1,000	7 days	-196 to +120	+10	✓	✓	✓		✓	✓	✓	✓	✓	✓
CM425	PP40 Top Clear S2196-BG45WH FSC	1,000	7 days	-196 to +120	+10		✓	✓		✓	✓	✓	✓	✓	✓
CO180	rDT PP70 Top White S2196-BG45WH FSC	1,000	14 days	-196 to +120	+10				✓		✓				
BP341	Primax Plus C2050P-BG40WH FSC	1,000	14 days	-196 to +120	-50		✓	✓	✓	✓	✓	✓	✓	✓	✓
BU323	PP Light Top White C2050P-BG40WH FSC	1,000	7 days	-196 to +120	-50	✓				✓	✓	✓	✓	✓	✓

### Laboratory and hospital applications

Code	Product Name	MOQ (m <sup>2</sup> )	Lead time	Service temp. (°C)	Minimum application temp. (°C)	Autoclave Sterilization	Chemical Resistance	Small Diameter Applications (<15mm)	Manual Writing (Pen)	Thermal Transfer	Direct Thermal	UV Inkjet	Water-based Inkjet	Dry Toner	Laser Print
AX308	PET50 PT Clear S692NP-BG40WH FSC	1,000	7 days	-20 to +80	+5	✓	✓			✓					
BB848	Transfer PET PT White S692NP-BG40WH FSC	1,000	7 days	-20 to +80	+5	✓	✓			✓					
BD522	PP Light Top White S717P-BG45WH	1,000	14 days	-50 to +121	+10	✓		✓		✓	✓	✓	✓	✓	✓
AY612	Thermal60 Top K8 S2000NP-BG40BR	1,000	14 days	-20 to +60	0			✓	✓		✓	✓			
BK658	Transfer Superior S2000NP-BG40BR	2,000	2 days	-20 to +80	0	✓		✓	✓		✓				
BX844	Demand Jet Mat Thin FSC S2000NP-BG40WH FSC	1,000	14 days	-20 to +80	0	✓		✓	✓	✓	✓		✓		✓
AT061	DATA70 FSC S451-HF80IMP	1,000	14 days	-40 to +80	-5	✓				✓	✓				✓
BX846	WBIJ PP90 Gloss White S692NP-BG40WH FSC	1,000	7 days	-20 to +80	+5	✓				✓	✓		✓		✓
AA544	LCJ Premium FSC S451-HF80	1,000	14 days	-40 to +80	-5	✓		✓	✓	✓	✓				✓
BX653	DIG UV InkjetMC80 FSC S2045NP-BG45WH FSC	1000	14 days	-40 to +70	0				✓	✓	✓	✓	✓	✓	✓

## Primary blood bag applications

Code	Product Name	MOQ (m <sup>2</sup> )	Lead time	Service temp. (°C)	Minimum application temp. (°C)	Autoclave Sterilization	Chemical Resistance	Small Diameter Applications (<15mm)	Manual Writing (Pen)	Printability		
CO866	PE105 Matt White AL171-BG40WH FSC	2,520	21 days	-80 to +140	+10	✓	✓		✓	✓	UV Inkjet	
AA437	MC WET Strength-AL171-BG40WH FSC	1,000	7 days	-80 to +140	+10	✓	✓	✓	✓	✓	Water-based Inkjet	
AD980	Transfer PP AL171-BG40WH FSC	1,000	14 days	-80 to +140	+10	✓	✓		✓	✓	Dry Toner	
CM972	PVC8128 PPS N MI465-BG40BR FSC	1,500	14 days	-80 to +120	+10	✓	✓		✓	✓	Laser Print	✓

## Secondary blood bag applications

Code	Product Name	MOQ (m <sup>2</sup> )	Lead time	Service temp. (°C)	Minimum application temp. (°C)	Autoclave Sterilization	Chemical Resistance	Small Diameter Applications (<15mm)	Manual Writing (Pen)	Printability		
AQ596	PP NG Top White S2060NP-BG45WH FSC	1,000	7 days	-40 to +70	0		✓		✓	✓	UV Inkjet	
AN038	Transfer PEHD S2060NP-BG40BR	1,000	7 days	-40 to +70	0				✓	✓	Water-based Inkjet	
AQ665	PB PP NG Top White 2XS2060NP-BG40BR/BG40WH	1,000	7 days	-40 to +70	0				✓	✓	Dry Toner	✓
AZ612	Transfer PP75 Matt White S692NP-BG40WH FSC	1,000	7 days	-20 to +80	5				✓	✓	Laser Print	
AO525	Transfer PE HD C2020P-BG40WH FSC	1,000	14 days	-50 to +80	-20		✓		✓	✓		
BO628	Thermal TOP S8 FSC S2060NP-BG40WH FSC	1,000	7 days	-40 to +70	0				✓	✓		



## Get in touch

To learn more about our materials and technical support services for pharmaceutical labelling, visit [label.averydennison.com](http://label.averydennison.com). Or contact your Avery Dennison representative.

For more information on technical performance and printing recommendations, please refer to the respective datasheets. Please note that the Avery Dennison product range and service offering can be subject to changes. For an accurate overview, please check our website [label.averydennison.eu](http://label.averydennison.eu) or contact your local Avery Dennison sales representative.

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