

# UNIVERSAL CARBONLESS

CARBONLESS FOR DIGITAL DRY TONER/  
LASER AND OFFSET PRINTING



Universal Carbonless is engineered for short-run (<50,000 sheets) offset and quick turnaround on-demand digital dry toner/laser printers.

## Universal Carbonless

Run on offset or digital dry toner/laser presses

Quick and easy variable data, numbering and barcoding with digital printing methods

Consistent crisp, dark, legible images through each ply

Thickest, stiffest sheet for best runnability

Custom sizes available - can be collated and micro perforated

**Printer Compatibility:** Digital Dry Toner/Laser, Offset

## Applications

Multipart Forms

Variable Data Forms

Barcoded Forms

Service Receipts

Repair Order Forms

Parking Tickets

Purchase Order Forms

Packing Slips

Bank Books

Medical Forms

Retail Receipts

Automotive Service Receipts

Legal Forms



SUSTAINABLE  
FORESTRY  
INITIATIVE

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SFI-00677



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Parts	SKU #	Colors	Size & Grain	M Wgt	Sheets/Carton	Sets/Carton
<b>Pre-Collated Reverse</b>						
2 R/S	50167	Canary CF White CB	8.5" x 11" GL	11.0	5000	2500
	50170		11" x 17" GL	22.0	2500	1250
3 REV	50171	Pink CF Canary CFB White CB	8.5" x 11" GL	11.2	5000	1670
	50197		11" x 17" GL	22.3	2500	835
4 REV	50175	Goldenrod CF Pink CFB Canary CFB White CB	8.5" x 11" GL	11.1	5000	1250
	50220		11" x 17" GL	22.3	2500	625

Parts	SKU #	Colors	Size & Grain	M Wgt	Sheets/Carton	Sets/Carton
<b>Pre-Collated Straight</b>						
3 STR	50172	White CB Canary CFB Pink CF	8.5" x 11" GL	11.2	5000	1670
	50174		11" x 17" GL	22.3	2500	835
4 STR	50176	White CB Canary CFB Pink CFB Goldenrod CF	8.5" x 11" GL	11.1	5000	1250
	50244		11" x 17" GL	22.3	2500	625

GL=Grain Long GS=Grain Short

No, it's not just magic!  
How carbonless really works ...

CF: COATED FRONT   CFB: COATED FRONT & BACK   CB: COATED BACK

**Microfilming**  
Universal Carbonless images reproduce very well on microfilms and on most copying equipment. Equipment employing an infrared process or diazo. Where a translucent original is necessary, will not produce acceptable copies from carbonless paper.

**Fan-Out Padding**  
This product is designed for use with Nekoosa Coated Products' Fan-Out Padding Adhesive to provided fan-apart form sets. A CB sheet in the top position and a CF sheet in the bottom position are required for proper fan out. This product is designed to repel the adhesive at the front of the CB and back of the CF sheet. This allows production forms sets when the stock is fanned at the corners.

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## TECHNICAL DATA ▶

		CB	CFB	CF
<b>Physical Properties</b>				
<b>Basis Weight</b> (Lbs/500-17" x22")	T-410	22	23	22
<b>Basis Weight</b> (g/m2)	T-410	83	86	83
<b>Thickness</b>	T-411	4.5 mil	4.2 mil	4.1 mil
<b>Brightness</b> (White only)	T-452	92	-	-
<b>Opacity</b>	T-425	88.1%	-	-
<b>Image Color</b>	NCP Test	Black	-	-
<b>Odor</b>	NCP Test	Very Slight Odor	-	-

Test methods prefixed with a "T" are established by Technical Association of the Pulp and Paper Industry.

<b>Conditions For Use</b>	
<b>Shelf Life*</b>	2 years

\*When kept in a copy room condition and properly resealed in original packing when not in use.

IF YOUR MACHINE DOES THIS		THIS IS WHAT YOU NEED	
Print This Side Of The Sheet	Delivers The Print This Way	This Collation	Loaded With The Arrows (print side)
Top	Print Side Up	Reverse	Up
Top	Print Side Down	Straight	Up
Bottom	Print Side Up	Straight	Down
Bottom	Print Side Down	Reverse	Down

### Speed of Image Formation

The image of Universal Carbonless paper is immediately legible. The image will continue to darken over a short period of time and will be most apparent in handwritten forms. Extreme cold temperatures will slow down the speed of the image formation and conversely, higher temperature will increase the reaction time.

### Pressure Required to Image

Because of the difference in individual requirements, the wide range of pressure exerted by various printers or writing pressure associated with hand entry, users should conduct test simulating actual usage conditions for assuring satisfactory performance in specific applications.

### Image Test

Make a small firm mark on the first completed form set. Check each ply for presence of carbonless image. This will indicate whether or not the printing/copying is being performed on proper side of the paper.

### Press and Ink

Universal Carbonless paper may also be printed on wet offset, dry offset and letterpress equipment. Standard low-tack inks give good performance. If utilizing UV offset inks, set UV lamps to lowest setting that will cure the inks. UV light exposure will cause the premature development of the imaging inks with enough intensity and time of exposure.

### Delivery

Pre-collated Universal Carbonless paper is specifically designed for use with machines using toner heat fusing systems and delivering sheets into a receiving tray.

### Conditioning and Handling

As with most paper grades, Universal Carbonless paper should be acclimated to copy room conditions before printing. Keep paper stored in original protective packaging until needed. Unused paper should be resealed in the original wrapper and stored in a controlled environment. Handle paper with minimal pressure to avoid inadvertently marking or scuffing of the paper.

The information provided herein is correct to the best of Nekoosa's knowledge, however, should not be construed as specifications. No liability for any errors, facts or opinions are accepted. Customers must satisfy themselves as to the suitability of this product for their application. No responsibility for any loss as a result of any person placing reliance on any material contained herein will be accepted.