



## Product/Process Change Notification

<b>PCN Number:</b>	100027-D	<b>Product Category:</b> Ink	<b>Issue Date:</b> 5-Apr-2019
<b>Contact:</b>	Inside Sales	E-Mail: insidesales@xandex.com	
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<b>Description of Change to Customer:</b>			
Replacement of the black dye used in 7824, 7824T, and 8103 Xandex Inks.			
<b>Reason For Change:</b>			
The black dye used in Xandex Inks has been discontinued by the manufacturer. Replacement dyes from the same manufacturer are undergoing qualification testing.			
<b>Customer Impact of Change and Recommended Action:</b>			
The revised ink formulation has passed all testing criteria to date. Customers are advised to perform their own required verification process on their specific target wafer materials.			
<b>Forecasted Key Milestones:</b> Subject to change based on business conditions			<b>Date:</b>
<b>Complete Internal Qualification Testing</b>			Complete
<b>Samples Available To Order</b>			1-May-19
<b>First Shipment of Changed Product</b> (as early as)			1-Oct-19
<b>Last Shipment of Unchanged Product</b> (subject to material availability)			30-Sep-19
<b>Method of Identifying Changed Product:</b>			
Batch number, expiration date and ship date.			
<b>Assessment:</b>			
Form, may be slightly darker. Manufacturing location change. We do not expect the new ink formulations to exhibit any functional difference in performance.			
<b>Products and Xandex Part Numbers Affected</b>			
All cartridges using 7824 Black Ink, 7824T Black Ink, or 8103 Black Ink (see sheet 2).			
<b>Revision History</b>			
<b>Date of Revision:</b>	<b>Revision Letter:</b>	<b>Reason:</b>	
5-Apr-19	A	Initial publication	
10-Apr-19	B	Removed 305-2212 from affected assemblies	
12-Jul-19	C	Updated Testing, First/Last Ship Dates, Method of ID	
26-Aug-19	D	Removed 8104 from PCN	

Please contact your Xandex sales representative for any questions or support requirements. Please return any response as soon as possible, but not to exceed 30 days.

### PCN 100027 Appendix: Qualification Testing

Test	Result
Color strength	Pass
Particle size (fineness of grind)	Pass
Ink Viscosity	Pass
Contamination	Pass
Performance (size, curing, solvent resistance, adhesion)	Pass
Cartridge (balling, wetting, clogging)	Pass
DM-1 Backflow	Pass
Dot Count	Pass
Shelf Life/Re-verification	Pass



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### Appendix: Cartridges affected by PCN 100027

#### Cartridges that use 7824 Black Ink

Part Number	Description
201-1546	INK 7824 BLK 1OZ BOTTLE W/DISP CONE
302-1151	7824BLK 05ML DM1 FILAMENT
302-2151	7824BLK 05ML DM1 TUNGSTEN
302-2251	7824BLK 08ML DM1
302-2351	7824BLK 10ML DM1
302-2451	7824BLK 15ML DM1
302-2651	7824BLK 25ML DM1
302-2658	CSP 7824BLK 18/25ML DM1
302-2851	7824BLK 30ML DM1
302-3371	CSP 7824 BLK 10ML DM1.25
302-3451	7824BLK 15ML DM1.25
302-3651	7824BLK 25ML DM1.25
302-4351	CSP 7824BLK 10ML DMS
302-4451	CSP 7824BLK 15ML DMS
303-1551	7824BLK A5 DM2
303-1651	7824BLK A6 DM2
303-1851	7824BLK A8 DM2
304-1551	7824BLK A5 DM2.3
304-1651	7824BLK A6 DM2.3
304-1851	7824BLK A8 DM2.3

#### Cartridges that use 8103 Black Ink

Part Number	Description
201-1545	INK 8103 BLK 1OZ BOTTLE W/DISP CONE
305-0111	DISC CSP DM1 8103BLK 05ML(FIL)
305-1111	DISC CSP 8103BLK 05ML DM1 TUNG
305-1113	CSP8103BLK 5ML TUNG W/TAN LBL
305-1211	DISC CSP 8103BLK 08ML DM1 W/05ML
305-2111	8103BLK 05ML DM1 TUNGSTEN
305-2211	8103BLK 08ML DM1
305-2311	8103BLK 10ML DM1
305-2411	8103BLK 15ML DM1
305-2611	8103BLK 25ML DM1
305-2618	CSP 8103BLK 18/25ML DM1
305-2811	8103BLK 30ML DM1
305-3611	CSP 8103BLK 25ML DM1.25
305-4411	CSP DMS 15ML 8103 BLK
305-7111	CSP 8103BLK 5ML TUNG 120-125 DM1
306-1511	8103BLK A5 DM2
306-1611	8103BLK A6 DM2
306-1811	8103BLK A8 DM2
307-1511	8103BLK A5 DM2.3
307-1611	8103BLK A6 DM2.3
307-1811	8103BLK A8 DM2.3

#### Cartridges that use 7824T Black Ink

Part Number	Description
201-1544	INK 7824T BLK 1OZ BOTTLE W/DISP CONE
302-1461	7824TBLK 15ML DM1
302-2161	7824TBLK 05ML DM1 TUNGSTEN
302-2261	7824TBLK 08ML DM1
302-2361	7824TBLK 10ML DM1
302-2661	7824TBLK 25ML DM1
302-2861	7824TBLK 30ML DM1
302-3361	CSP 7824T BLK 10ML DM1.25
302-3661	7824TBLK 25ML DM1.25
303-1561	7824TBLK A5 DM2
303-1661	7824TBLK A6 DM2
303-1861	7824TBLK A8 DM2
304-1561	7824TBLK A5 DM2.3
304-1661	7824TBLK A6 DM2.3
304-1861	7824TBLK A8 DM2.3