

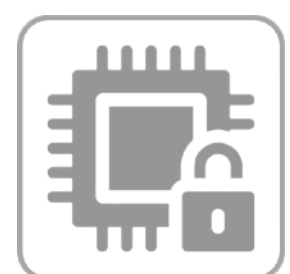
# TC21B

Water-based black pigment ink for printing on  
semi-porous and porous substrates



- Great durable and sharp print without smearing or transfer
- Rapid absorption and fast drying with extended De-Cap time
- Perfect for both matte and glossy-coated labels and cartons

**TC21B** is designed for high-resolution printing of small characters, barcodes, 2D codes, images, and more at high speeds on semi-porous and porous substrates. Its quick drying time on various materials guarantees reliable and consistent high-quality industrial codings, requiring minimal maintenance between print jobs.



## PRODUCT SPECIFICATION

Part Number	TC21B		Cartridge Type :	BC300B ink cartridge with the security chip
Ink Type	Water-based Ink	● Black	Colorant Type : Pigment	
Resolution	Up to 600 dpi (recommended 300x300 dpi)			
Max Print Swath	12.7 mm			
Nozzle Count	300			
Ink Throw Distance	2 -5 mm			
Firing Voltage	11.2 V	★ Please conduct test before use, the suitable parameter may be different depending on the printer		
Firing Pulse Width	2.0 μs			
Max. Firing Frequency	12kHz			
Ink Fill level	42 ml			
Average Delivered Ink	35 ml (Vertical)	33 ml (Horizontal)		
Average Drop Volume	37 pl			
Ink Dry Time	2-3 seconds (set for 300x300 dpi, printing horizontal lines)			
	★ The printing test results on aluminum foil packaging bags. However, the actual dry time depends on different substrates.			
De-Cap Time	12 hours and above under normal condition and environment			
	★ The actual toleration depends on the surrounding temperature and humidity.			
Operation Conditions	15°C – 35°C ; 35% – 80% RH			
Shipping/Storage Conditions	5°C – 40°C ; 20% – 80% RH			
Printhead Cleaning	Wipe lightly with lint-free dry cloth			
Shelf Life	12 months from ink filled date			

### ❖ ATTENTION:

- Please clean the printhead before installing the ink cartridge.
- Use a lint-free dry cloth to clean the ink cartridge and printhead.
- Do not use a general and water-containing wet cloth, as it may cause nozzle clogging or damage.
- Printing performance may vary based on conditions and environment, please conduct a printing test carefully before use.
- All data here is based on Bentsai laboratory data, not guaranteed.

### ❖ MAINTANCE AND HANDLING:

- Use a lint-free cloth wipe the printhead nozzle in a single direction from top to bottom.
- Hold the cartridge printhead face down, gently press the printhead on a lint-free cloth to let the ink flow out, and then carefully and lightly wipe across the printhead along the edge.

### ❖ SHIPPING AND STORAGE:

- The cartridge should be stored in vacuum sealed pouch until used.
- Use the cartridge within two weeks of removing it from vacuum sealed pouch for best performance.
- Store the cartridge with a clip placed over the printhead. Horizontal position is recommend.
- Refer to Safety Data Sheet for more information.



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