

ES21B

Compact 1-inch Water-Based Ink Cartridge



- ✓ Suitable for handheld inkjet stamp printers with long decap time
- ✓ Deep, solid black print with sharp clarity, high density and long durability
- ✓ Ideal for semi-porous materials such as high-density cartons, corrugated paper and kraft paper

The **ES21B** is a compact 1-inch water-based ink cartridge, designed for porous and semi-porous surfaces. It has a smaller design than standard 1-inch cartridges while retaining full ink capacity and print output. Made for BENTSAI E71S and E71XS handheld Inkjet Stamp printers, it allows the device to work with both half-inch and 1-inch cartridges for full compatibility.

SUBSTRATES COVERAGE

Paper

Kraft Paper

Corrugated Board

HD Carton

Wood

Clay Coat

PRODUCT SPECIFICATION

Part Number	ES21B Cartridge Type: TIJ ink cartridge with the security chip		
Ink Type	Aqueous-based Ink	●Black	Colorant Type: Pigment
Resolution	300x300 dpi		
Max Print Swath	25.4 mm		
Nozzle Count	300		
Ink Throw Distance	2 -5 mm		
Firing Voltage	11.8 V	* Please conduct test before use, the suitable parameter may be different depending on the printer	
Firing Pulse Width	2.9 μs		
Max. Firing Frequency	12 kHz		
Ink Fill level	42 ml		
Average Delivered Ink	36 ml (Vertical)	31 ml (Horizontal)	
Ink Dry Time	4-6 sec (Using a 300x300 dpi horizontal line as an example, with corrugated board as the test material, the actual drying time varies depending on the substrate).		
De-Cap Time	2 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 the printhead with a non-woven cloth; moisten it with distilled or deionized water if needed.		
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.
- 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.

❖ MAINTENANCE AND HANDLING:

- Use a lint-free cloth wipe the printhead nozzle in a single direction from top to bottom
- If the printhead is clogged, gently wipe it with a lint-free cloth moistened with deionized or distilled water and do not use alcohol or cleaning agents on aqueous ink cartridges.
- 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.
- After use, seal the printhead with the originally attached cartridge clip and store the cartridge with the position of its printhead UP until subsequent use.

❖ SHIPPING AND STORAGE:

- The ink cartridge should be stored with the originally attached clip in a vacuum-sealed pouch until used
- Please store the cartridge with the printhead facing upwards. If it is still in the original sealed carton, store it according to the markings.
- Use the cartridge within two weeks of removing it from the vacuum-sealed pouch for best performance.
- Refer to Safety Data Sheet for more information.



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