

HP Specialty Printing Systems

TIJ 2.5 industrial inks selection guide



WHAT DO YOU HAVE TO SAY?



Versatile and affordable, HP's advanced inkjet technology powers a wide range of industrial and commercial printing applications—from simple text documents to vivid, complex graphics on many types and sizes of media. HP printheads use thermal inkjet (TIJ) technology, providing high-resolution printing (up to 600 dpi) for sharp text, crisp barcodes and intense color graphics.

Whether you are looking to create eye-catching direct mail or high-resolution package coding, HP's wide variety of ink products—including pigment- and dye-based, standard and quick-dry in a wide range of form factors—offers the right solution for your business.

Why choose HP Specialty inks?

HP invented thermal inkjet printing. For more than 25 years, HP engineers have studied ink and media interactions and applied their knowledge to create a line of specialty inks customized to a wide variety of industrial and commercial applications.

By choosing HP specialty inks, you get the power of one of the strongest ink development programs in the world and the benefits and quality of genuine HP products.

TIJ 2.5 at a glance

- Up to 600 dpi resolution
- 300 nozzles
- Print width of 0.5 inch
- Up to 400 feet/minute speed

Proven benefits

Reliable

- High resolution and superior clarity
- Water-based inks
- Maintenance-free solutions
- Unmatched ease of use

Adaptable

- Broad spectrum of different inks
- Supports a wide variety of substrates
- Modular and scalable technology

Affordable

- Low cost of acquisition
- Competitive running costs

Pigments

- Large, solid-color particles suspended in liquid by a dispersant
- Provides excellent fade-resistance and waterfastness

Dyes

- Small color molecules dissolved in a liquid
- Delivers a bright, wide color gamut

Substrate Compatibility for Popular HP Black Inks













	45A/4500	Versatile Black	Fast Dry Black	1918
Decap time	+	~	~	+
Reliability	+	+	+	+
Uncoated	+	+	+	+
Coated	~	+	+	+
Overprinted	~	+	+	-
Aqueous coating	-	-	-	-
Varnish coating	-	+	-	-
UV coating	-	-	-	-
Tyvek	-	+	+	-
Plastic/PVC	-	~	-	-

Menu:

- Recommended ink-substrate combination
- Recommended for certain substrates in the category
- Not a recommended ink-substrate combination
- No heat
- With heat

Evaluation criteria:

- Production print speed of 240 feet per minute.
- Drytime of less than or equal to 3 seconds on uncoated media, without heat. All others with heat applied.
- Yellow rating on decap requires wiping of printhead to recover.
- Ink performance on any specific substrate will vary depending on the coating chemistry, printed image, pen-to-paper spacing and ambient conditions

Product name	Description	Type	Product numbers					
			Integrated printhead		Bulk ink supply	Printhead, bulk ink		
			10/20 ml	40/42 ml		Printhead	175 ml	350 ml
HP 4500 Black Ink 	Superior print quality with minimal intervention on a wide variety of media <ul style="list-style-type: none"> High-quality, lightfast, waterfast, sharp, crisp output on a variety of porous media High optical density for excellent readability of barcodes and package coding Ink compatibility with porous media (e.g., corrugate) prevents bleeding or streaking Waterfast ink prevents bleeding or streaking 	P		51645A	C6119A	Q7456A		Q7457A
HP 45A 10-Pack 	Simplified bulk packaging reduces shipping costs as well as handling and waste in a production environment <ul style="list-style-type: none"> High-quality, lightfast, waterfast, sharp, crisp output on a variety of porous media High optical density for excellent readability of barcodes and package coding Ink compatibility with porous media (e.g., corrugate) prevents bleeding or streaking 	P		CG339A				
Versatile Black Ink 	High-speed printing with superior print quality and dry time on porous and coated media <ul style="list-style-type: none"> High-quality, lightfast, waterfast, sharp output on a variety of coated and uncoated media Fast dry time and high durability for clear, crisp output with no smearing or transfer Innovative water-based formula for simplified cleanup and disposal 	P		C8842A		Q2320A		Q2321A
Black 1918 Ink 	Excellent decap times for intermittent printing, with optimal image quality, print speed and dry time on a wide variety of substrates <ul style="list-style-type: none"> Higher decap times mean immediate startup and virtually no printhead servicing between jobs Sharp, crisp, durable output without smearing or transfer Better performance on some glossy substrates 	D		C2344A		Q2345A		Q2346A
Fast Dry Black Ink 	High-speed printing with superior print quality on porous media <ul style="list-style-type: none"> Faster drying time for faster production, higher output and lower cost Waterfast formula eliminates bleeding and streaking Sharp, dark black text with high optical density in a single pass 	P		C6195A				
Spot Color Red Ink 	Low-cost, high-quality printing with enhanced eye appeal <ul style="list-style-type: none"> Faster drying time for higher production rates and faster printing on porous media Low-cost personalization of mailings and direct marketing messages with color text/graphics Virtually no time needed to change from black to color printing 	D		C6168A				
Red Ink 	Ideal for applications requiring a more waterfast red ink on porous media <ul style="list-style-type: none"> High-quality printing on a variety of porous media, even those made with recycled fibers Waterfast, bright red ink prevents bleeding or streaking under extreme moisture 	P		C6128A		Q2357A		Q2358A
Spot Color Blue Ink 	Low-cost, high-quality printing with enhanced eye appeal <ul style="list-style-type: none"> Faster drying time for higher production rates and faster printing on porous media Low-cost personalization of mailings and direct marketing messages with color text/graphics Virtually no time needed to change from black to color printing 	D		C6170A				
Blue 2242 Ink 	Consistent, high-quality, cost-effective results for mail printing that meets postal authority requirements for both color and durability <ul style="list-style-type: none"> Specifically designed for mail postage and mail printing markets Durability and color that meet postal authority requirements for mailings 	P	Q2353A	Q2354A		Q2382A	Q2381A	Q2356A
Spot Color Green Ink 	Low-cost, high-quality printing with enhanced eye appeal <ul style="list-style-type: none"> Faster drying time for higher production rates and faster printing on porous media Low-cost personalization of mailings and direct marketing messages with color text/graphics Virtually instantaneous to change from black to color printing 	D		Q6169A				
Spot Color Yellow Ink 	Low-cost, high-quality printing with enhanced eye appeal <ul style="list-style-type: none"> Faster drying time for higher production rates and faster printing on porous media Low-cost personalization of mailings and direct marketing messages with color text/graphics Virtually no time needed to change from black to color printing 	D		Q6173A				
UV/IR Invisible Ink 	Invisible ink for coding that is readable by UV light, laser scanner or camera system <ul style="list-style-type: none"> Increase security with machine-readable printing that appears invisible Prints over normal toner text areas to provide unparalleled flexibility Invisible printing frees up valuable real estate, improves appearance 	D		Q7485A				

P = Pigment

D = Dye



To learn more, visit www.hp.com/oeminkjet

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