

See What HP Technology Can Do For You



HP TIJ 2.5 industrial ink portfolio



Trust HP industrial printing supplies for a wide range of industrial printing applications—from eye-catching direct mail to high-resolution barcodes, text, or graphics on packaging. HP's wide variety of ink supplies in a range of form factors offer the right solution for your business.

Why choose HP Specialty Inks?

Applying over 30 years of expertise with HP Thermal Inkjet printing technology, HP engineers have studied the interactions between inks and substrates to develop a line of specialty inks customized for a wide variety of industrial and commercial applications, offering all the benefits, quality, and reliability of genuine HP products.

Proven benefits

Adaptable

- High-resolution coding, text, and graphics up to 600 dpi
- Water and solvent-based inks
- Unmatched ease of cartridge replacement

Flexible

- Supports a wide variety of porous and non-porous substrates
- Single-use cartridges and bulk ink systems to fit your production needs

Reliable



- Consistent performance from cartridge to cartridge
- Genuine, proven HP products

HP TIJ 2.5 Industrial Ink Portfolio



This chart provides key highlights for each of the products in the HP TIJ 2.5 Industrial Ink Portfolio.









| Product name | Description | Type | Product numbers | | | | |
|-------------------------|---|-----------------------|------------------------------------|--|------------------|----------------------|--------------------------------|
| | | | SKU | Smart Card SKU | Bulk ink supply | Bulk print cartridge | Ink cartridge |
| HP Black 45A | <ul style="list-style-type: none"> High-optical density ink Fade- and water-resistant Recommended for uncoated substrates | Pigment | CG339A 40 ml | B3F38A 40 ml | C6119A 370 ml | Q7456A | Q7457A 350 ml |
| Versatile Black Ink | <ul style="list-style-type: none"> Fast dry time for high-quality, high-speed printing High durability Recommended for coated and uncoated substrates | Pigment | C8842A 40 ml | FOL36A 40 ml | | Q2320A | Q2321A 350 ml |
| Fast Dry Black Ink | <ul style="list-style-type: none"> Fast dry time for high-quality, high-speed printing Recommended for porous substrates | Pigment | C6195A 42 ml | | | | |
| HP Black 1918 Ink | <ul style="list-style-type: none"> Long decap time for reliable intermittent printing on a wide variety of substrates Recommended for coated and uncoated substrates | Dye | Q2344A 40 ml | B3F36A 40 ml | | | |
| Durable Black Ink | <ul style="list-style-type: none"> Durability, decap, and print quality performance at mid-range print speeds Versatility up to 100 ft/min print speeds Recommended for porous substrates | Pigment | CQ849A 42 ml | | | | |
| HP Black 2510 Ink | <ul style="list-style-type: none"> Dark, high-optical density ink Very long decap time for high-quality, high-speed printing Recommended for porous substrates | Pigment | | FOL95A 40 ml | | W3S26A | |
| HP Black 2520 Ink | <ul style="list-style-type: none"> Dark black, high-optical density ink Long decap time for reliable intermittent printing Recommended for uncoated and aqueous coated substrates commonly used in pharmaceutical applications | Pigment/ Dye blend | | FOL69A 40 ml | | | |
| HP Black 2531 Ink | <ul style="list-style-type: none"> Fast-drying for high-speed applications Long decap time for reliable intermittent printing Recommended for certain uncoated, matte, and gloss-coated substrates | Dye | CG378A 40 ml | B3F37A 40 ml | | | |
| HP Black 2580 Ink | <ul style="list-style-type: none"> Fast-drying, solvent ink Long decap time for reliable intermittent printing Recommended for UV-coated substrates, foils, flexible films, and PVC | Solvent | | <ul style="list-style-type: none"> B3F58A 35 ml vertical; 25 ml horizontal B3F58B 34 ml vertical; 31 ml horizontal | | FOL89B Smart Card | FOL91A 400 ml Smart Card |
| Non-fluorescent Red Ink | <ul style="list-style-type: none"> Bright red impact on a variety of substrates, including recycled fibers Meets Universal Postal Union guidelines for color and durability | Pigment | C6128A 40 ml | | | Q2357A | Q2358A 350 ml |
| Blue 2242 Ink | <ul style="list-style-type: none"> Bright blue impact For varied direct mail applications Meets Universal Postal Union guidelines for color and durability | Pigment | Q2354A 42 ml CG401A 20 ml | | | Q2382A | Q2356A 350 ml |
| Spot Color Blue Ink | <ul style="list-style-type: none"> Dries in less than one second on porous substrates Enables higher customer response rates and simple, easy product identification | Dye | C6170A 40 ml | | | | |
| Spot Color Red Ink | <ul style="list-style-type: none"> Dries in less than one second on porous substrates Enables higher customer response rates and simple, easy product identification | Dye | C6168A 42 ml | | | | |

Substrate compatibility for HP aqueous inks

-  Dye
-  Pigment

Dry time

-  **<5 seconds**
(shortest dry time; highly recommended)
-  **<10 seconds**
(longer dry time; recommended)
-  **10-20 seconds**
(recommended only with heat assistance)

| | HP 45A  | Versatile Black  | Fast Dry  | HP 1918  | Durable Black  | HP 2510  | HP 2520  | HP 2531  |
|-----------------------|---|--|---|--|--|--|--|--|
| Decap time | 4 min | <1 min | 4 min | 5 min | 3 min | >60 min | >60 min | 30 min |
| Uncoated | 1.0 OD | 1.0 OD | 0.9 OD | 0.9 OD | 0.7 OD | 1.0 OD | 0.9 OD | 0.9 OD |
| Aq coating | 1.1 OD | 1.2 OD | 1.7 OD | 0.9 OD | 1.1 OD | 0.9 OD | 1.4 OD | 0.8 OD |
| Tyvek | 0.8 OD | 0.8 OD | 0.8 OD | 0.7 OD | 0.7 OD | 0.9 OD | 0.7 OD | 0.6 OD |
| Gloss coated | 1.1 OD | 1.2 OD | 1.0 OD | 1.0 OD | 1.0 OD | 1.1 OD | 1.1 OD | 1.0 OD |
| Varnish coated | 0.2 OD | 0.9 OD | 2.0 OD | 0.8 OD | 1.4 OD | 1.0 OD | 0.5 OD | 0.4 OD |

* OD = Optical Density



Substrate compatibility for HP Solvent 2580 Ink

| | Blister Foil | Treated BOPP | Treated PET | Treated PE | PVC | UV Coat | Nylon |
|------------------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|
| Decap time | >15 min | >15 min | >15 min | >15 min | >15 min | >15 min | >15 min |
| Dry time | 5-7 seconds | 3-5 seconds | 3-5 seconds | 5-7 seconds | 5-7 seconds | 5-7 seconds | 5-7 seconds |
| Optical density | 1.97 | 0.98 | 1.09 | 1.05 | 0.96 | 0.90 | 1.02 |
| Durability | 5-10 | 40-50 | 15-20 | 50-60 | 25-40 | 80-85 | 20-25 |

Dry time, optical density and durability values based on HP internal testing methods. Durability measured mechanically at 30psi. Percentage fade post-rub measured. Optical density measured by 300 x 300 dpi black out. Dry time measured by timed smear test.

Ink performance may vary based on the substrate source, printing system, and environmental conditions. Test the ink with your application to understand true performance.

Learn more at
hp.com/go/oeminkjet

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