



HP 2590 Black Solvent Smart Card Print Cartridge

Fast-dry ink for your coding and marking needs



Key highlights

- Outstanding durability on BOPP
- Excellent durability on a wide range of substrates including films
- Fast dry time 3 - 5 seconds¹
- Long decap time (24 hours) – Ideal for intermittent printing



Are you looking for long durability for your coding and marking applications? What about fast dry time, FCM suitability with GMP², or the ability to print on films? You will see all of that with the HP 2590 Black Solvent Smart Card Print Cartridge. Utilizing well-proven HP 45si Print Cartridge technology with HP 2590 solvent ink, this combination of HP engineered technology is designed to meet and exceed your coding and marking production and regulations needs.

Designed for coding and marking on films, including BOPP

HP 2590 solvent ink provides industry-standard durability on untreated BOPP, and excellent durability on treated BOPP and a wide variety of other substrates, including PE, PET, UV, aluminum foil and PVC.¹

Meet rigorous food and pharma packaging requirements

Comply with new, rigorous regulations in the most demanding markets, including food, pharmaceutical, and industrial with this FCM-suitable ink with GMP.²

High productivity even with stop and start printing

Printing with the HP 2590 Black Solvent Smart Card Print Cartridge is easy in intermittent and fast printing production environments. The long decap time of the ink allows your operators to leave the cartridge uncapped for up to 24 hours with immediate recovery after restarting printing.

Consistent, high print quality for bar codes and text

Get best-in-class print definition and optical density from the combination of HP TIJ 2.5 technology and HP 2590 solvent ink. You will see the high print quality that is required in many markets including pharmaceutical and industrial marking.

Proven quality and reliability

The HP 45si Print Cartridge combined with HP-developed inks have been a proven technology of choice for many Original Equipment Manufacturers over many years. With over 50 million HP original ink cartridges shipped globally, HP provides you with assured supply, HP quality and reliability

¹ Based on HP internal testing. Ink performance may vary based on substrate, printing system, and environmental conditions such as high humidity and high temperatures over 35C. Test the ink in your application to understand true performance.

² HP Food Contact Material (FCM)-suitable inks are designed and manufactured in accordance with Good Manufacturing Practice: Printing Inks for Food Contact Materials (Rev 4, 2016), published by the European Printing Ink Association (EuPIA). To receive a copy of a Statement of Composition document for an FCM-suitable ink, contact an HP SPTS Sales Representative.

Technical specifications



HP 2590 Black Solvent Smart Card Print Cartridge

| | |
|---|--|
| Ink type | Original HP solvent ink |
| Print cartridge type | HP 45si Print Cartridge optimized for non-porous printing with built-in intelligence |
| Resolution | Up to 600 dpi (recommended 300 x 300 dpi) |
| Nozzle count | 300 |
| Print swath | 12.7 mm (0.5 in) |
| Throw distance³ | Up to 5 mm |
| Firing voltage | 8.7 V |
| Fire pulse width | 1.8 microseconds |
| Pulse warming | Off |
| Average drop volume | 29 pl |
| Ink fill level⁴ | 47 ml |
| Number of electrical interconnect pads | 52 + 4 (printhead + Smart card) |
| Operating conditions | 0 to 35°C / 32 to 95°F, 20 to 80% RH |
| Print cartridge servicing⁵ | Use lint-free wipe that is either dry or wetted with ethanol or isopropyl alcohol (IPA) |
| Shipping/storage conditions | -20 to 35° C / -4 to 95° F, 20 to 80% RH (if product is below 10° C, a 6-hour warm-up within the operating temperature is required prior to use) Altitude: 0 to 5000 meters (0 to 16,404 feet) Orientation: nozzles up or side |
| Additional shipping requirements | Dangerous goods restrictions; for more information, see the Material Safety Data Sheet (MSDS) at hp.com/go/spsmsds |

Ordering information

| Product number | Product description |
|----------------|--|
| W3T10B | HP 2590 Black Solvent Smart Card Print Cartridge |

³ Recommended. May vary by application.

⁴ Average delivered ink is 34 ml (vertical) and 33 ml (horizontal).

⁵ HP SPTS does not guarantee that these inks would work in your specific application at these temperatures, we highly recommend you test these products in your specific use case. Low range operational temperatures may affect intervention rate.

Based on HP internal testing. Ink performance may vary based on substrate, printing system, and environmental conditions. Interventions rated may be increased at low range temperatures. Test the ink in your application to understand true performance.

Learn more at
hp.com/go/oeminkjet

