

HP 2590 Solvent 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 of less than 3 seconds
- Long decap time – Ideal for intermittent printing

Are you looking for long durability for your coding and marking applications? What about fast dry time, high print quality, or the ability to print on films? You will see all of that with the HP 2590 solvent print cartridge. Utilizing well-proven HP 45si print cartridge technology with newly-developed HP 2590 solvent ink, this combination of HP engineered technology is designed to meet and exceed your coding and marking production needs.

Designed for coding and marking on films, including BOPP

HP 2590 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

High productivity even with stop and start printing

Printing with the HP 2590 solvent 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 one hour 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 solvent cartridge combined with HP-developed inks have been a proven technology of choice for many Original Equipment Manufacturers over many years. The HP cartridges provide 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. Test the ink in your application to understand true performance.

Technical specifications



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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 distance²	Up to 5 mm
Firing voltage	8.7 V
Fire pulse width	1.8 microseconds
Pulse warming	Off
Average drop volume	28 pl
Average delivered ink	34 ml (vertical) and 33 ml (horizontal)
Number of electrical interconnect pads	52 + 4 (printhead + Smart card)
Operating conditions	15 to 35° C / 59 to 95° F, 35 to 80% RH
Print cartridge servicing	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 Solvent Print Cartridge

² Recommended. May vary by application.

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