

HP 2300 High Optical Density Aqueous Print Cartridge



High Optical Density for coding to last on your porous materials



Key highlights

- High optical density
- Improved decap time²
- 5 years lightfastness durability (pharma European regulation EU2016/161)¹
- Outstanding print quality at high speed

When barcodes do matter

Printing a barcode with inkjet makes sense only if it can deliver readability now and all along the lifecycle of the product. Thanks to its formulation, HP 2300 delivers one of the highest optical densities on the market together with a UV light resistance especially required in the pharmaceutical industry (EU2016/161).¹

When print quality and performance go together

There is no reason to compromise on performance to get good print quality. Built to deliver in the most demanding production environments, HP 2300 can print B-grade barcodes at speeds ranging from 30 to 100 mpm and achieve a barcode quality score of 3 to 4 at speeds between 20 and 60 mpm. With a dry time of 3 seconds, HP 2300 will fit into most production lines without any need for changes to the packaging process. Finally, durability testing has demonstrated the great resistance of HP 2300 to intensive rubbing.¹

Pioneering for the environment

A substantial effort has been made to design an ink that is positioned to comply with relevant regulatory requirements while offering versatility in printing applications. In addition, HP integrates Design for Environment principles into the development of new inks with an intention to "future proof" solutions for customers.

Technical Specifications

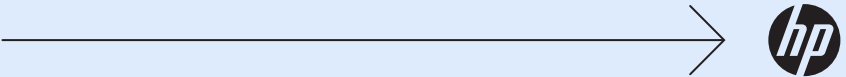
Title under product image (to be provided)	HP 2300 Black Dye High OD Prnt Crtg
Ink type	Original HP aqueous ink
Print cartridge type	HP 45ai Print Cartridge optimized for porous printing with built-in intelligence
Resolution	Up to 600 dpi (recommended 300 x 300 dpi)
Nozzle count	300
Print swath	12.7 mm (0.5 in)
Throw distance	Up to 1-3 mm (may vary by application)
Firing voltage	11.0 V
Fire pulse width	1.9 microseconds
Pulse warming	ON, 40C
Maximum firing frequency	12 kHz (9 kHz typical)
Average drop volume	31 pl
Average delivered ink	41 ml
Number of electrical interconnect pads	52 + 4 (Printhead + Smart card)
Operating conditions	5 to 35° C / 41 to 104° F, 10 to 80% RH
Print cartridge servicing	Use lint-free wipe
Shipping/storage conditions	Shipping/storage conditions 10 to 30° C / 50 to 86° F, 5 to 80% RH
Altitude	0 to 5000 meters
Orientation	Nozzles up or side

For more information about this ink, please refer to the product Safety Data Sheet (SDS). To ensure you have the latest version of an SDS, visit www.hp.com/go/spsmsds. To refine your search, choose the appropriate Region and Language, and type in the part number.

Ordering information

Product number	Product description
9S5W4A	HP 2300 Black Dye High OD Prnt Crtg

Learn more at www.hp.com/go/oeminkjet



1. Based on HP internal testing, ink performance may vary performance may vary based on substrate, printing system, and environmental conditions. Test the ink in your application to understand true performance.
2. Best decap time performance obtained in above 15°C and 20% RH.
HP Services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.