

TECHNICAL DATA SHEET

Product Features & Substrates

Features

DNSC's x-nano™ Invisible Infrared inks are ideal for “stealth” tracking (1-D and 2-D barcodes), invisible marking, security applications, anti-counterfeiting, product security and brand protection, art and design. Invisible Infrared ink offers high absorbance intensity in the near infrared (IR) light range. Invisible Infrared Ink is transparent at visible wavelengths, but appears dark or black under an infrared camera lens.

Ink vehicle:	Aqueous
Ink type:	Dye
Detection (type, λ):	IR, 700-900 nm
Color (absorption, λ_{max}):	Black, 783nm
Lightfastness (woolscale):	2-3
Waterfastness:	Good
Smudge proof:	Yes
Shelf life:	< 2 years

Ideal Product Use Conditions*

Media compatibility: porous, non-porous, coated, glossy and offset.

Ink Handling

Proper use and handling will provide optimum print quality and print cartridge life. It is recommended that all personnel handling the cartridges wear gloves and eye protection. Clean up any ink spill immediately. Should ink come in contact with skin, wipe ink off the area with a clean, dry cloth rag and wash affected area with soap and water.

Cartridge Maintenance

Keep print cartridge sealed in original packaging until ready to use. After opening cartridge, store cartridge in the printer “home position” between print jobs. Press the Power button rather than unplugging the unit with powering down. Store unopened cartridges at room temperature in an upright position. In the event of improper storage and nozzle dry out, use a lint free cloth and water to restore. For specific application needs or bulk feed systems please consult: diversifiednano.com

Storage/Shelf Life

Optimal temperature range for storage is 41°F - 95°F (5°C - 35°C). Keep out of reach of children. This product has a shelf life of 16 months from the date of manufacture when stored under preferred conditions. Exposing the cartridge to temperatures higher or lower than preferred may have an adverse effect on performance and/or shelf life. The cartridge needs to acclimatize to room temperature before calibration and printing.

Rev: TDSHP45-IR-783_122414

HP45-IR-783 (SPS)

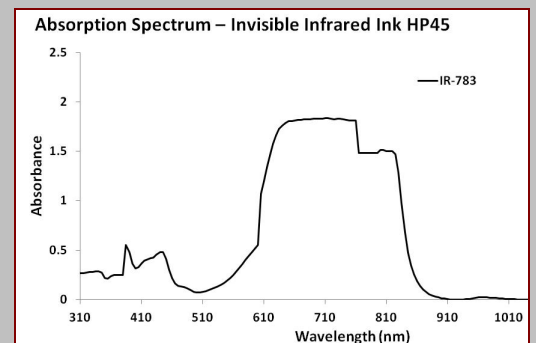
INVISIBLE INFRARED

PREMIUM 40mL Cartridge

DNSC's x-nano™ Invisible Infrared Ink HP45 cartridges are specifically designed for use in HP Specialty TIJ 2.5 Printing Systems (C8842A) and inkjet printers compatible with the HP 45 (51645A) cartridge, including HP deskjet printers, copiers, photosmart printers, and multifunction products. HP45-IR-783 is designed to offer reliable and quality results every time.

Order Part No. C8842-IR783-P

[Request quote](#)



*Results may vary according to your print conditions. To the best of our knowledge this data sheet is accurate, however; DNSC assumes no liability for the accuracy of this information. The final determination of the suitability for a particular use is the sole responsibility of the user.

Ink Performance

DNSC's x-nano™ Invisible Infrared Ink HP45 cartridges ensure consistent results for a wide variety of printing needs. Its specially formulated ink gives you crisp, sharp prints that resist smudging.

Ink Volume

Actual print cartridge life will vary depending on printing application.

Ink volume: 40ml

Operating Conditions

Temperature: 66 ° F – 80 ° F [19 ° C – 27 ° C]

Humidity - Optimum: 40% - 60% (non-condensing)

Operational: 30% - 70% (non-condensing)

DNSC's Warranty

DNSC guarantees the quality of every cartridge shipped. However, it cannot guarantee the printed results since DNSC has no control over customers' operating and printing procedures. While all information on use of this product is provided in good faith, the customer bears sole responsibility in its end use.

Liabilities associated with using this product are limited to the purchase value of the product.

Validated Equipment

HP45-IR-783 (SPS) cartridges are specifically designed for use in HP Specialty Printing Systems (C8842A) and the following printer platforms: HP DeskJet 710c, 720c, 722c, 815c, 820cxi, 850c, 870cxi, 880c, 890c, 895cxi, 930c/cm, 950c, 959c, 960c, 970cxi, 980cxi, 990cxi/cm, 995c, 1100c, 1120c, 1125c, 1180c, 1220c/ps, 1280, 1600c/cm, 6122, 6127 and 9300. HP PhotoSmart 1000, 1100, 1115, 1215, 1218 and 1315. HP OfficeJet g55, g85, g95, k60, k80, r45, r65, t45, t65, pro1150c, pro 1170c and pro 1175c.

Do you have questions about this product? [Ask question](#)

Similar Products

HP45-IR-820

HP45-IR-1040

Other Products

HP45-IUV-B

HP45-IUV-G

HP45-IUV-R

HP45-MX

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