

# General Inks

BLACK INK FOR HP TIJ 2.5

Fast drying inks for print on semi-porous and non-porous substrates

## IQ648 General Black Sapphire Ink

Printable on non-porous substrates

The IQ648 Black Sapphire ink makes it possible to print on a variety of different substrates:

- Aqueous coatings
- Blister foil
- Clay coats
- Oriented nylon
- Polypropylenes
- UV coats
- Varnishes



## The fast drying properties of Black Sapphire Ink make no-dryer printing a reality

Due to the fast drying properties of the ink, you can print without a heater! Now you can even print on coated substrates with a smaller industrial desktop HP printer with no dryer setup.

## IQ9493 General Black Heatless Ink II

Printing on a wider range of materials

IQ9493 Heatless Ink II can print on semi-porous substrates as well as non-porous materials e.g.:

- Aqueous acrylic resin coatings
- Blister foil
- Clay-coated materials
- Oriented nylon
- Polyester
- Varnish overcoats



## No need for a heater to dry the ink

Since this is a quick-drying ink, a heater is not required, and it is now possible to print on non-porous materials even with small printers unable to be fitted with heaters.

## Excellent light-fastness, water resistance and heat resistance

Improved light-fastness, water resistance and heat resistance. Now it is possible to print on previously unprintable materials.

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## Specifications

### Item # / Name

IQ648 Black Sapphire Ink cartridge  
 IQ9493 Black Heatless Ink II cartridge

### Cartridge type

HP 45A

### Colour

Black

### Ink type

Solvent

### Average delivered ink

40 ml

### Printing parameters

Voltage: 7.0 V / Pulse width: 2.2  $\mu$ s  
 Voltage: 8.0 V / Pulse width: 1.6  $\mu$ s  
 Voltage: 9.0 V / Pulse width: 1.2  $\mu$ s

### Max. running speed

at 300x150 dpi: max. 240 m/min  
 at 300x300 dpi: max. 120 m/min  
 at 300x600 dpi: max. 60 m/min

### Pulse warming

On, 40°C

### Shelf life

One year from fill date

### Heater requirements

Air dry. No dryer necessary.

### Storage conditions

15°C (59F) ~35°C (95F)  
 Store in room temperature

### Head cleaning

Clean with a dry tech wipe  
 Do not clean with water

### Maximum frequency

12 KHz

### Shipping info

UN1210 Class 3 Flammable

## Ink handling and Maintenance

### This product uses light fast and water resistant dyes

but it is not recommended that printed substrates are exposed to direct sunlight for long periods of time or immersed in water.

### Since this product is dye-based

it is not resistant to very high temperatures (discoloring may occur when substrate is exposed to temperatures over 80°C).

### As the print quality varies

depending on the application and environment, it is recommended that you test on print samples first.

If clogging of nozzles occurs, please clean printhead with a clean, dry tech wipe (please do not wipe with water).

### This product contains

alcohol-based solvents, so please use in a well ventilated area.

Ink name	Substrates	Ink type	Qty	Colorant type	Shelf life	Voltage	Pulse warming	Pulse width	Dry time	Decap time
<b>Specifications for IQ648 Black Sapphire Ink Cartridge</b>										
IQ648	semi-porous and non-porous substrates	Solvent	ml	Dye	12 mths	7.0 V	40°C	2.2 $\mu$ sec	? sec	min
						8.0 V		1.6 $\mu$ sec		
						9.0 V		1.2 $\mu$ sec		
<b>Specifications for IQ9493 Black Heatless Ink II Cartridge</b>										
IQ9493	semi-porous and non-porous substrates	Solvent	ml	Dye	12 mths	8.6 V	40°C	2.3 $\mu$ sec	? sec	min

## Highly reliable HP manufactured cartridges

Under license from America's Hewlett-Packard Corporation, the Specialty Printing Systems Division, the inks from General are filled into genuine, original HP manufactured cartridges.

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FRANCE +33 1 4815 5050 | GERMANY +49 5257 938 6777

www.hsasystems.com | mail@hsasystems.com