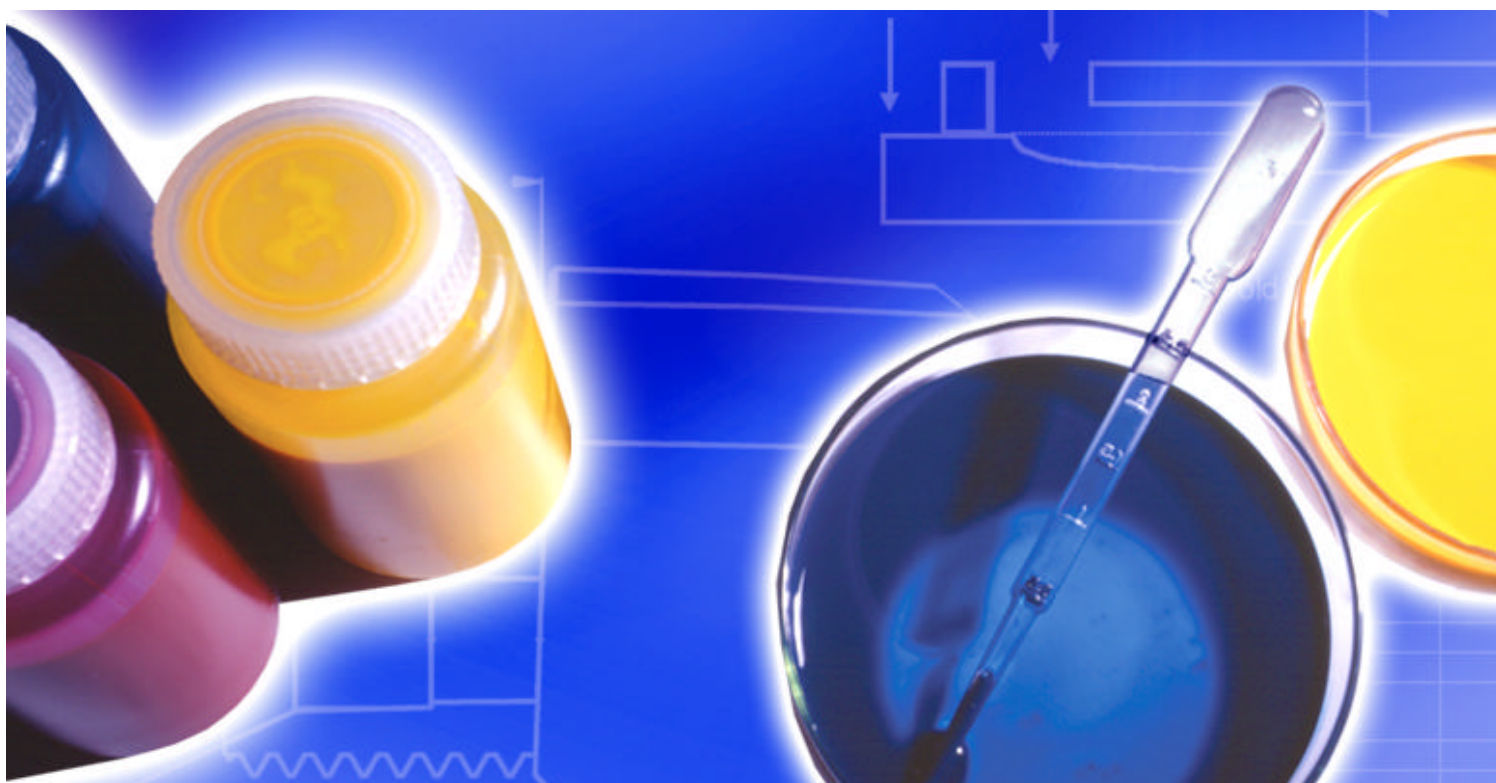




# Inks

High Performance Inks



## Xaar Crystal UFX Ink Product Information

XJ500/180

XJ500/360

XJ126/200

XJ126/300

## Xaar Crystal UFX Ink Product Information

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### Key features of the Xaar Crystal UFX Ink series:

- Low-volatility, pigmented UV-curable inks.
- Free radical chemistry, giving rapid cure times with appropriate UV-light systems.
- Available for use in the XJ500-180 and 360 printheads for wide format and web applications and the XJ126- 200 and 300 for scanning applications, using a range of non-porous substrates.
- Excellent flexibility and chemical resistance. High gloss appearance and good scuff resistance.

### Properties

The Xaar Crystal UFX Ink series has been developed for use in conjunction with the XJ500 and XJ126 printheads and a suitable UV-light source to print onto a range of flexible and semi-flexible substrates. Good adhesion can be achieved on a wide range of plastics such as PVC, Vinyls, Polyethylene, Polypropylene and Olefinic plastic. When choosing a suitable substrate, the minimum surface energy should be at least 10 dynes/cm above that of the ink, surface treatment can help increase the surface energy.

The use of low volatility acrylates in the Xaar Crystal UFX Ink series gives good reliability times in the XJ500 printheads, up to 1 hour before maintenance is required under laboratory conditions. The inks only 'dry' when exposed to UV light. For development purposes, the use of a focussed, minimum heat output UV iron doped lamp, ("D" bulb/spectrum) with a typical output of at least 200 W/cm is recommended. Full details of the photoinitiator profiles are available upon request.

The Xaar Crystal UFX Inks have been approved for use with the XJ500-180 / 360 printheads for use in web printing and scanning applications and the XJ126-200 / 300 for scanning applications, providing solutions to the packaging and graphic arts markets.

The Xaar Crystal UFX Inks are manufactured using high performance, automotive grade pigments, with a blue wool standard of 7+. They are available in the process colours, cyan, magenta, yellow and black. Typical colour gamut characteristics of the ink on PVC, at 100% coverage, at 360 x 360 dpi are given below:

Colour	L*	a*	b*	OD
Crystal UFX Cyan	50.23	-24.90	-51.52	2.06
Crystal UFX Magenta	47.90	65.57	9.11	1.36
Crystal UFX Yellow	87.48	-16.82	80.23	0.80
Crystal UFX Black	24.81	1.63	6.14	1.33

Table 1: Xaar Crystal UFX Colour data on PVC.

## Xaar Crystal UFX Ink Product Information

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The Xaar Crystal UFX Inks have excellent lightfastness properties. This can give superior performance in outdoor applications. After 500 hours exposure a Q-Sun 1000 Xenon Test chamber with a 340nm UV sensor type, Delta E values of <10 are typically obtained under wet and dry conditions.

When fully cured, the Xaar Crystal UFX Inks show good resistant to abrasion, water and common solvents when used on suitable substrates.

The Xaar Crystal UFX Inks are compatible with all the materials used in the XJ500 and XJ126 range of printheads. Other materials the ink is compatible with are PTFE, EPDM, PP and PE (LD & HD).

The Xaar Crystal UFX Inks are not compatible with materials such as Butyl rubber, Viton, nitrile, and Neoprene. Full materials compatibility information is available upon request.

The Xaar Crystal UFX Inks are classified as Irritant: Avoid skin and eye contact, Irritating to eyes, respiratory system and skin. It is recommended that impervious gloves, such as nitrile, be used if contact with ink is likely.

The Xaar Crystal UFX Inks are supplied with a full safety data sheet (MSDS sheet). Contact Xaar plc for further copies or additional details.

The Xaar Crystal UFX Inks offer a shelf life of 9 months from the date of manufacturing.

The Xaar Crystal UFX Inks are fully compatible with the Xaar Crystal UFX flush, part no IK7209900. Please consult the '*Xaar Crystal UFX Ink User Information*', (document No. D020905301, D020905302, D021011301 and D021011302) before using the product.

### Order Codes

The Xaar Crystal UFX Ink series is described by the following part numbers:

<b>Crystal UFX Cyan:</b>	<b>IK7200100</b>
<b>Crystal UFX Magenta:</b>	<b>IK7200200</b>
<b>Crystal UFX Yellow:</b>	<b>IK7200300</b>
<b>Crystal UFX Black:</b>	<b>IK7200400</b>
<b>Crystal UFX Flush:</b>	<b>IK7209900</b>

A suffix which describes the pack size is added to the part number to form the order code.

<b>1 litre bottle:</b>	<b>03A</b>
<b>5 litre bottle:</b>	<b>04A</b>

## Xaar Crystal UFX Ink Product Information

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Therefore the order code for 5 litres of Crystal UFX Cyan would be:

**IK720010004A**

Please contact the Xaar sales team for further advice on pricing and placing orders.

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