



A World-class Leading Company in Inkjet Applications

# INKTEC

## INK REPORT

**InkTec®**

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**InkTec®**

Today’s technology is never good enough for us.

# INKTEC INK REPORT CONTENTS

It guides you a world of InkTec inks made by high ink formulation technology and thorough test. You will be convinced by this guide book that InkTec inks are right choice for your successful business.



I.	QUALITY BASED,INKTEC
II.	NAMED BY INKTEC
III.	WHY INKTEC INK
	01INKTEC DYE BASED INK
	01 INKTEC DYE BASED INK FOR HP
	02 INKTEC DYE BASED INK FOR EPSON
	02INKTEC PIGMENT BASED INK
	01 INKTEC PIGMENT BASED INK FOR HP
	02 INKTEC PIGMENT BASED INK FOR EPSON
IV.	MAIN FACTOR TO DEVELOP INK
	01PHYSICAL PROPERTIES
	02PRINTING PROPERTIES
	03RELIABILITY
	04HEALTH &SAFETY
V.	TERMS OF QUALITY CONTROL & COI
	(CERTIFICATION OF INSPECTION)
VI.	TEST CHARTS

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## I. Quality Based, InkTec



### ❖ 01 High Quality & Nano Technology

Using our own pigment powder dispersion technology, we are capable of manufacturing the stable ink with the pigment dispersion of high solid content. Based on the dye and polymer molecular design and material synthesis technology, the optimized high performance ink is well mixed and manufactured.

### ❖ 02 Wide Range of Selection

InkTec develops and supplies the inkjet technology based dye, pigment, solvent, oil, sublimation, acidic, reactive, and dispersed inks for the different types of the printers from the general office printer to the outdoor use. Furthermore, we are expanding our domain to the next generation technologies such as the digital textile printing, UV curing and electronic material. Since all our products are developed by the well defined system and the state-of-the-art analyzers and lab equipment with focus on compatibility and equivalency with the products from the manufacturers, they are consistent in quality. We can also develop the optimized ink satisfying the customers' specific requirements.

### ❖ 03 Understanding of the Printing System

We have not only our own ink development technology, but we also have thorough know-how of the printer structure (head and system). Unlike some manufacturers who offer the product by simple blending of the cheap raw material, our support for the printing system as well as ink manufacturing allows us to custom manufacture the ink according to the specification of the printer structure.

### ❖ 04 Intellectual Property Rights

Since the company is founded, we have received over 60 intellectual property rights in ink manufacturing and synthesis, structure, manufacturing equipment and utility models both hear and abroad. Our relentless research and development effort will add more original technologies in ink manufacturing technology and system.

### ❖ 05 Continuous Investment

20% of InkTec's 250 employees are involved in R&D with an investment of 7~8% of total revenue each year. That helps us to introduced more than 20 new products every year. Our efforts have paid off by the ISO 9001 certification for quality and selection as the Technology Competitive Small to Medium Company by SMBA in 2000. Our lab is also equipped with the state-of-the-art devices such as Weather-O-Meter, XRF(elementary analyzer) and APS analyzer among others to operate the lab customized to the project. Our such active investment on R&D is one of the reasons why people in over 120 countries worldwide are selecting InkTec products.

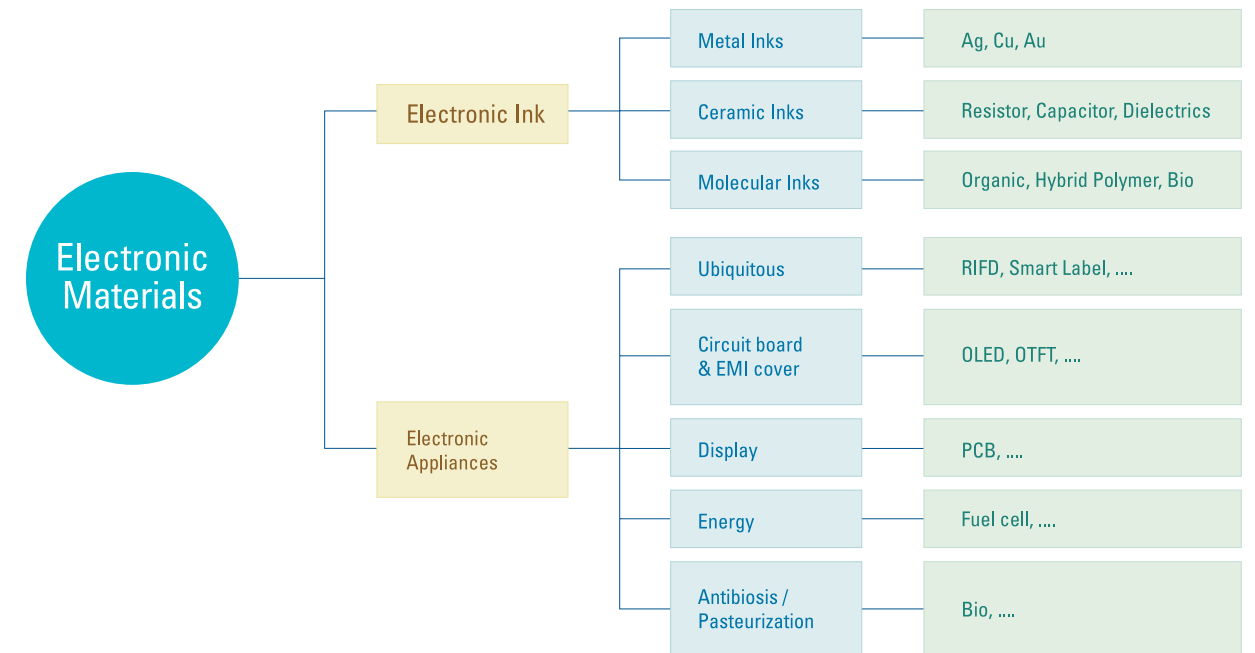
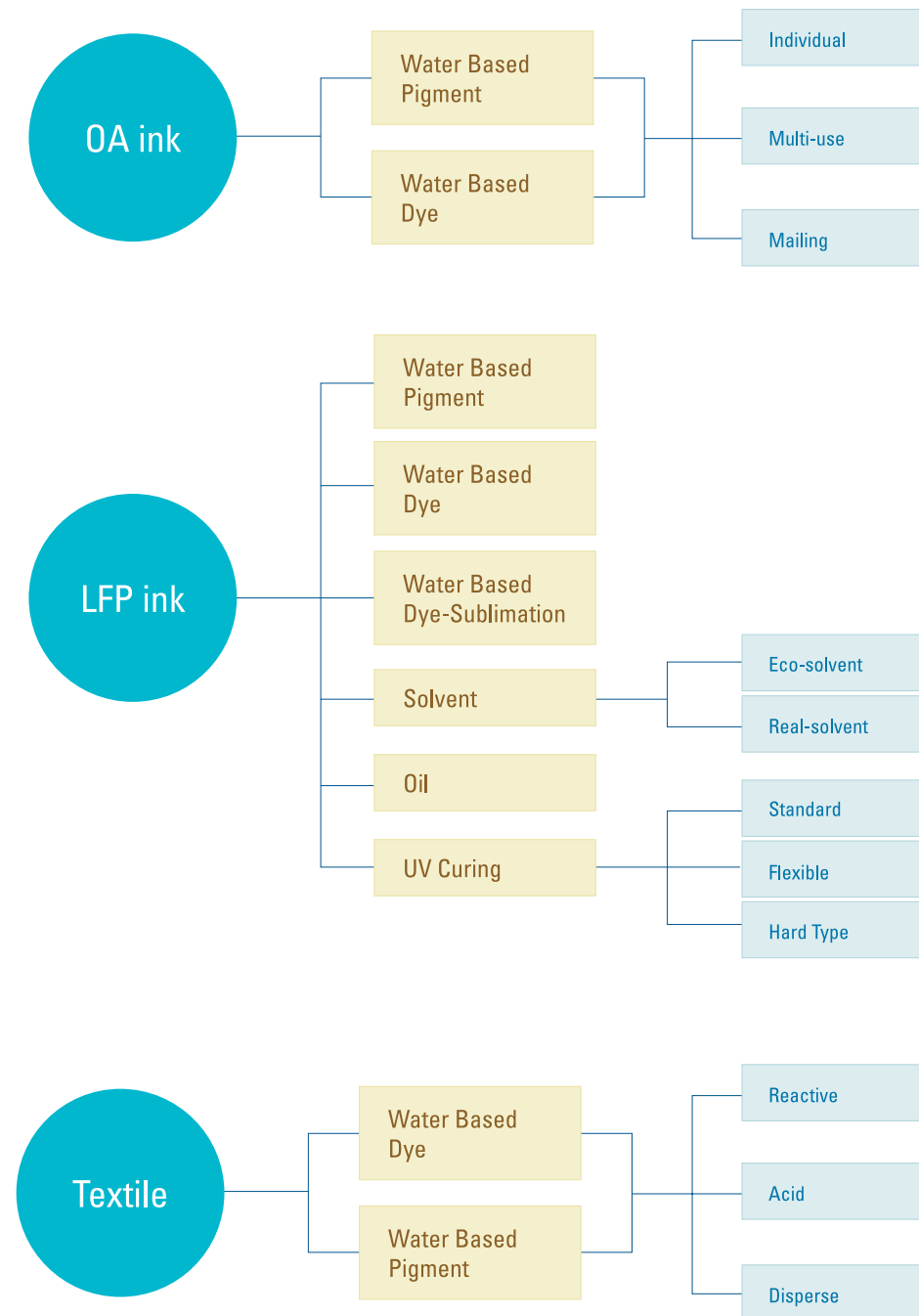
### ❖ 06 Product Development with Focus on the Consumers and Environment

While we provide the high quality inks at a reasonable price to the consumers, we also aim for protection of environment by recycling the used cartridge. In addition to ISO 14001 certification for environment, our wastewater treatment system that is more strict than the national guideline is just a part of InkTec manufacturing process that puts the consumer and environment at the highest priority. We also actively support the waste cartridge collection campaign by Beautiful Store, a volunteer organization, so that part of our revenue is returned back to the society.

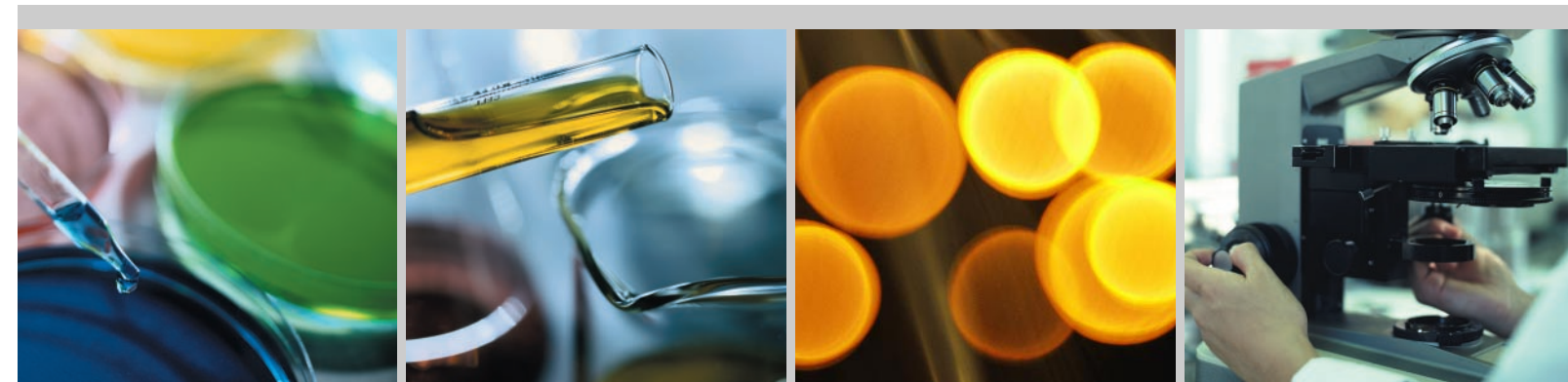
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## II. Named by InkTec



*All these in our production plants and research center are the basic components to keep InkTec as a market leader*





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## III. Why InkTec Ink

### *Innovation of Inkjet Technology*

#### 01 InkTec Dye Based Ink

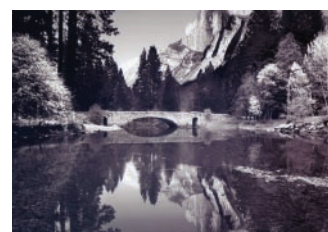
The performance of dye ink can be maximized when using high quality raw material, dye and additives. Since the color and resolution depends on the grade of dye, InkTec uses the best quality raw material to offer the bright and deep colors. The performance also depends on how to compound additives. InkTec has developed over 400 types of inks that can maximize the printout quality based on the intellectual properties as mentioned.

#### ❖ 01 InkTec Dye Based Ink for HP

The main function of the latest printers is to print the photo image. Printing natural looking images closes to the picture at a reasonable price will be the main factor for taking the market share. HP, the market leader, is not an exception. The company is actively promoting the photo printer that the general consumers can easily use while producing the professional looking printout. To go along with such market trend, InkTec introduced InkTec Dye Based Ink for HP that is perfectly consistent with HP's Viverra ink colors. The product offers better chroma than the existing light cyan & light magenta ink to produce the background color that is clearer and richer. Furthermore, addition of the dark gray and light gray in the black domain make it equivalent to HP OEM product to produce natural looking shadow when printing in black and white.



Traditional Ink



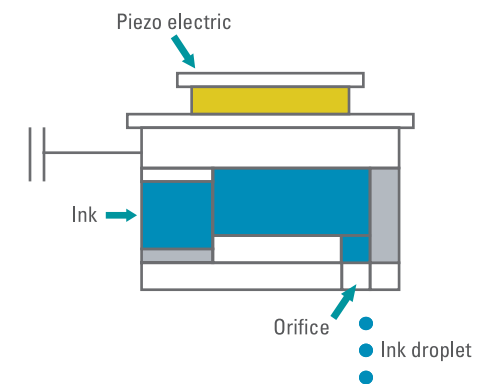
Gray Ink

Of course, the rich color presentation of the photo and gray ink can have the highest synergy when combined with the clear presentation of cyan, magenta and yellow inks. In consideration of HP's thermal head, the high quality raw material is consistently blended. Therefore using InkTec Dye Based Ink for HP hardly damages the thermal head and allows many ink refills as well as steady print quality at high speed.

This InkTec Dye Based Ink for HP is appropriate for high resolution and high speed printer.

#### ❖ 02 InkTec Dye Based Ink for Epson

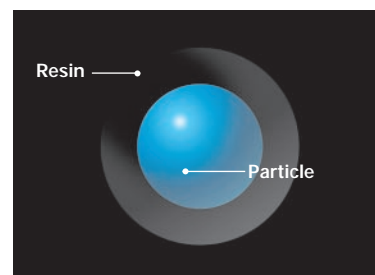
InkTec Dye Based Ink for Epson is optimized for the Epson printer that uses dye ink. The head of the Epson printer is a Piezo type, dispersing the ink by vibrating the ink chamber using Piezo. When the ink containing foam, the vibration may not be properly transmitted and can cause line omission, head clogs and others degrading the printout and head performance. InkTec Dye Based Ink for Epson is designed to remove the foam from selection of the raw material to blending and manufacturing. Especially since the foam can be expanded during vacuum packing, InkTec Dye Based Ink for Epson prevents such risk from the beginning. Using the high quality material allows excellent color presentation and paper support. When the printout is made on a photo paper, it shows almost picture like quality. It is widely used in the photo shop and general office. Having very short drying time, it is ideal for the consumer who wants quick printout or picture.



## III. Why InkTec Ink

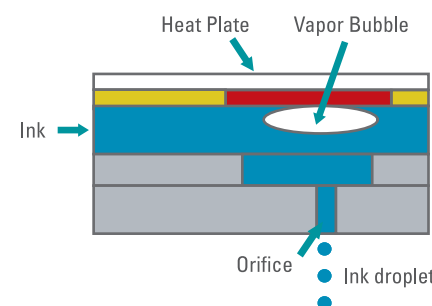
### 02 InkTec Pigment Based Ink

The key technology of the pigment ink is to maintain stability after resin coating the pigment particles and dispersing them. Imperfect disperse or unstable ink can cause bending or head clogging during printing. After years of research and development on dispersing technology, InkTec was able to miniaturize the pigment particles up to 80nm (0.08um) for both black and color inks. That results in consistent printing with no damage to the head and uniform absorption of the pigment molecules on the paper to present clear images in high resolution.



Average particle size :  
Approx. 0.1um → 80nm

#### 01 InkTec pigment based Ink for HP



InkTec pigment based Ink for HP is optimized for Vivera black pigment ink from HP. Using the pigment like the OEM product, it increases durability and lightfastness, and optimization to the HP head structure increases the cartridge and head durability as well. The HP head is thermal type which disperses the ink drop by the vapor bubbles created due to instant high heat applied to the ink in the head. When using improper ink, the ink property can be changed due to high heat or the ink residue can stick in the

heat plate, degrading the head durability and easily causing malfunction. In consideration of such HP head structure, InkTec uses the high quality material and tries to improve the head durability as well as the print quality. The stable dispersing technology used for InkTec pigment based Ink for HP prevents the risk of the pigment molecule precipitation or sticking to the heat plate. It offers clear text printout and graphic image. Since the pigment ink is produced by high quality material and precise manufacturing process, it can be used regardless of the packing type, producing clear printout with no penetration or line omission. The product is ideal for the HP printer users.

### 02 InkTec pigment based Ink for Epson

InkTec pigment based Ink for Epson uses InkTec's own 'Nano Coating Technology' to prevent discoloration for long period. Incorporating double density pigments, InkTec pigment based Ink for Epson produces prints with an extremely wide color gamut allowing the reproduction of colors as originally envisioned at the point of capture. With Photo Black, Matte Black, the ink can perfectly reproduce the rich impression of black and white photo.

#### Weathering test

To evaluate the resistance of printed output toward the effects of rain and sunlight. As the fading rate is low, the ink is more resistant.

\* Instrument : Xenon arc lamp - 0.35W/m<sup>2</sup> @ 340nm ; Light only , 72 hr (24h in the machine = a month outside)



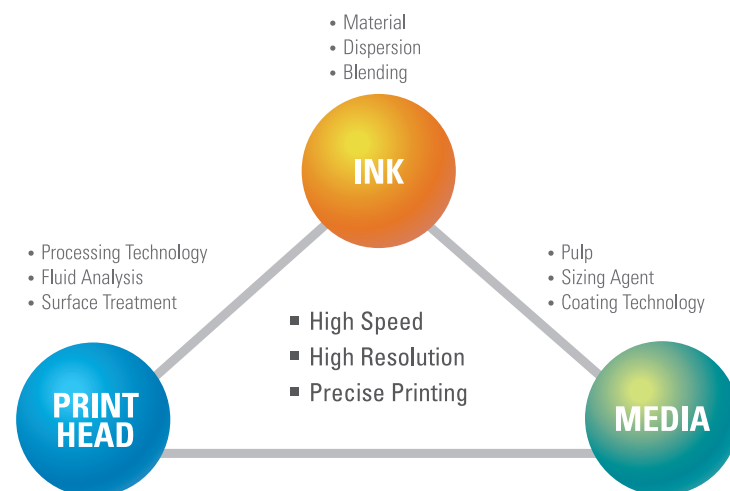
Furthermore, recognizing that the Epson Piezo head, which uses the electric vibration to disperse the ink, may not perform well if the foams exist in the ink, InkTec pigment based Ink for Epson is designed to be free of the foam from selection of the raw material to blending and manufacturing. Because of the technical difficulties, many ink manufacturers do not offer the pigment ink or only offer the black inks, but InkTec's InkTec pigment based Ink for Epson is available in all colors based on outstanding dispersing technology and excellent color presentation. This includes the photo colors of red, blue and others that increase color quality of the graphics. If the user wants to print the image that will be kept for long time, InkTec pigment based Ink for Epson is recommended since it offers high durability and lightfastness for the matt paper, glossy paper as well as the multi-purpose papers. InkTec pigment based Ink for Epson is the answer for the high priced printers or professional looking pictures.

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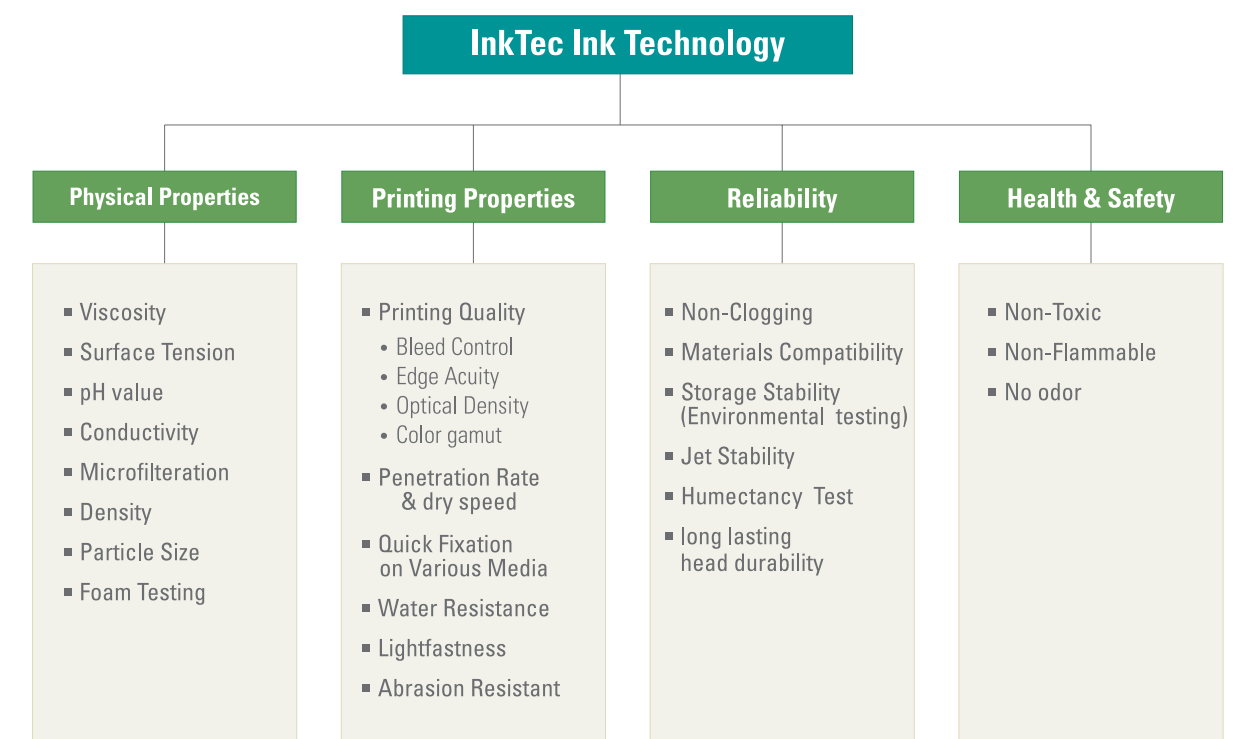
## IV. Main Factor to Develop Ink

*The inkjet technology can bring the best print quality when the following three factors are optimized.*



The ink must be developed with consideration to the printer head structure and dispersing method since they can affect ink flow, clogging, corrosion and jetability. Furthermore, the condition of the media affect the print out quality in sharpness, penetration rate, dry speed, bleeding, color gamut, optical density, water resistance and lightfastness. Therefore using the good quality media is as important as using the good ink. InkTec strives to improve the support of the media by using the good quality material as well as application of cutting edge blending and dispersing technology based on precise understanding of the printer head.

As a part of such efforts, the following factors analyzed in research and development of the best ink. All produced ink batches are objectively monitored for quality control. This data is used for our COI (Certification Of Inspection).



## IV. Main Factor to Develop Ink

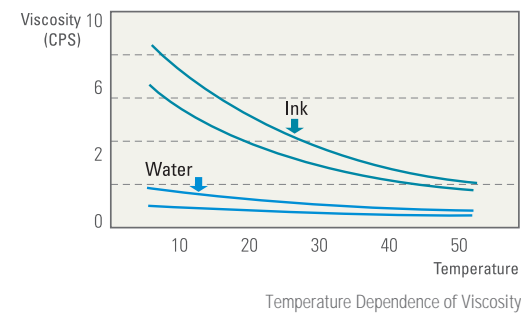
### 01 Physical Properties

Development of inkjet technology has allowed introduction of high resolution and high speed printers. The inkjet is the method of dispersing 2~5pℓ ink drops from the micro nozzle in units of  $\mu\text{m}$  to the media. If just one nozzle out of hundreds is clogged or improperly sprayed, good print quality cannot be attained. The most critical factor of the inkjet printer is the jet stability and prevention of nozzle clogging. Both of them are highly affected by interaction of the physical properties of the ink. The following physical properties are considered when we design the ink.

#### 01 Viscosity

The viscosity of the ink affects the following print qualities:

- Jet stability
- Ink flow inside the cartridge and head
- Ink cavitation
- Penetration and sharpness



If this property is not compatible with the head structure (i.e., too high or too low viscosity), jet stability cannot be attained. Normally, low viscosity of 2~10cps is used for the inkjet ink. Since the viscosity can change with temperature, InkTec pays special consideration to moderate this change. It is recommended that the ink to be stored at a temperature range of 15°C~35°C (59°F~95°F).

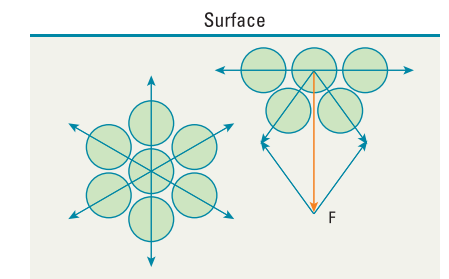
#### 02 Conductivity

This property is affected by salts (ions) and organic components (dye) in ionic state in the ink. It represents pureness of the ink.

#### 03 Surface Tension

The surface tension is the force created on the liquid surface as the liquid is exposed to the air and the gravity balance between the liquid molecules are broken. It affect the following print quality:

- Jet and dot stability
- Ink flow inside the cartridge and head
- Remanufacturing / refilling
- Ink cavitation
- Penetration rate and dry speed
- Bleeding and sharpness
- Color gamut
- Formation of meniscus on the nozzle



These factors have major impact on the print quality. InkTec products offer consistent surface tension that is appropriate for each type of head.

#### 04 pH Value

If pH of the ink is too low (acid) or too high (alkali), it can cause corrosion on the materials in the head or the sponge in the cartridge and degrade the chemical stability of the dye in the ink or pigment dispersion. pH values of InkTec inks are in the range that allow stabilization of the ink. They are generally in the weak alkali range.

#### 05 Microfiltration

All inks from InkTec are microfiltered to remove 99.9% of insoluble materials to make it appropriate for the micro nozzle. It is one of the reasons to ensure clear colors and outstanding print quality of InkTec inks.

#### 06 Density

It represents weight to volume ratio of the ink. Ink density is calculated by measuring the weight of the ink in a container with the specific volume. InkTec manages this property to maintain consistency and accurate quantity.



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## IV. Main Factor to Develop Ink



### 02 Printing Properties

The printing quality is affected not only by the ink properties but also the characteristics of the printed media. There is considerable difference in print quality depending on the type and amount of coating even when using the same ink. Therefore, InkTec compares the print quality of the OEM ink and ours for the same type of paper. The optical density is measured to compare the blackness on the specialized and multi-purpose papers. This is an important part of InkTec's development effort to ensure that the media support is considered as much as the ink properties.

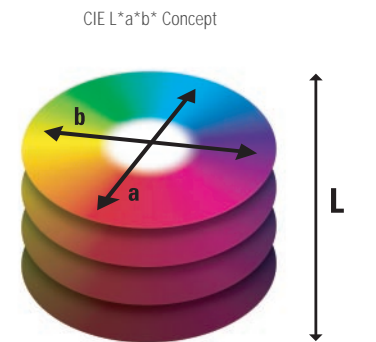
### 01 Bleed control & Edge Acuity

The ink dispersed from the cartridge nozzle moves to the porous layer on the paper (many small spaces existing between pulps of the paper) through capillary phenomena, and that's how the ink is absorbed and distributed on the paper. Since the porous layer differs depending on the coating type and amount, the degree of absorption is different even for the same ink. The paper using large amount or special type of coating reduces the contact of the ink with the porous layer and prevents ink bleeding. Considering these characteristics, InkTec performs the ink bleeding test on the various papers. The test includes bleeding between black and color inks and bleeding of black ink alone which is used for the most texts. These thorough tests enable InkTec to introduce the black and color inks that produces clear printout with no bleeding.

### 02 Color Gamut & Optical Density

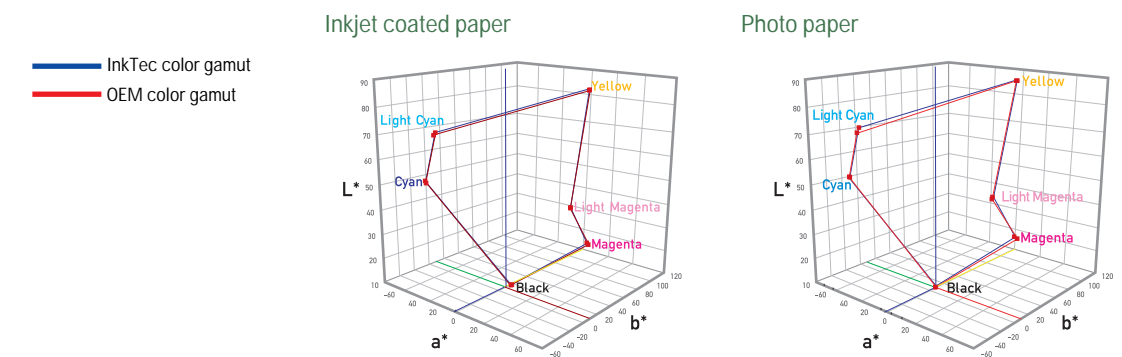
The inks from InkTec use different colorant and raw materials from the OEM inks and are optimized by our own design. Color gamut shows the color presentation range. For objective and accurate measurement, InkTec measures the color quality and presentation using  $L^*a^*b^*$  values of CIE, the international standard and most widely used. If the measured values are the same, it means the color presentation is equivalent.

- **L value (Lightness factor) :**  
This factor shows the lightness and darkness of an object and is measured in the number ranging from 0 to 100. (i.e., L=0 means black and L=100 means white.)
- **a value (Red/Green factor) :**  
This factor shows redness or greenness of an object. The plus (+) value means the color of an object belongs to the red category while the minus (-) value means the color belongs to green category.
- **b value (Blue/Yellow factor) :** This factor shows yellowness or blueness of an object. The plus (+) value means the color of an object belongs to the yellow category, while the minus (-) value means the color of an object belong to the blue category.



\* CIE : Commission Internationale de l'Eclairage

To Compare InkTec's color with HP's color on various kinds of media.  
If both inks show similar measurements, it means they have similar color gamut.  
\* Instrument : X-rite Spectrodensitometer 530



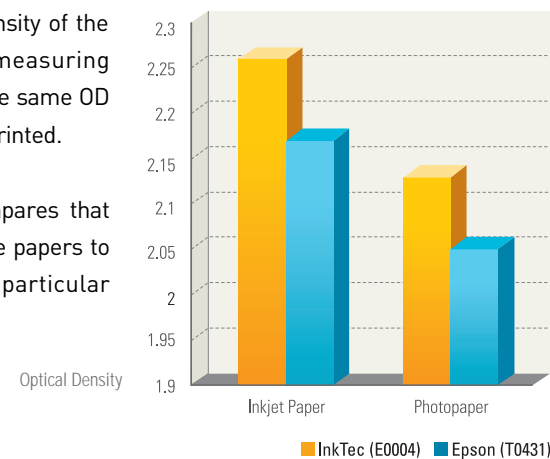
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## IV. Main Factor to Develop Ink

OD (Optical Density) is quantification of density of the ink spread on the paper and used for measuring blackness of the black ink. The inks with the same OD value have the equivalent blackness when printed.

InkTec measures LAB & OD values and compares that values with OEM on the various types of the papers to develop the most optimum inks for the particular printer.

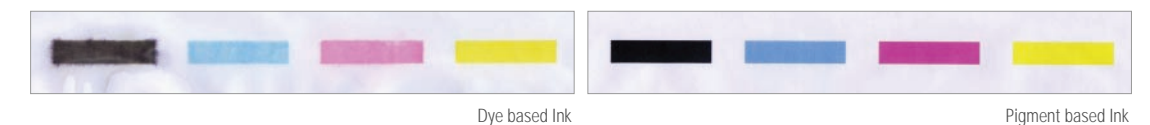


### 03 Penetration Rate & dry speed

This property checks the time required for the dispersed ink on the media to be dried and is affected by the ability of the media to absorb the ink and the surface tension of the ink. Increasing the penetration rate to speed up drying has the negative side effect of reducing the blackness of the printout. Therefore, it is important to balance between these two. InkTec's key know-how includes the optimum values of the blackness and penetration rate to satisfy the both.

### 04 Water Resistance and Lightfastness

As application of OA printing is getting diverse, water-resistance and lightfastness are required in an increasing number of areas. And this has led to an increase in demand for pigment ink and to reinforcement of functions. Due to difference in chemical structures, the pigment is more widely used than the dye because of its superior water-resistance and lightfastness. The pigment ink consists of the pigment particles, and InkTec is very specialized in dispersion technology. So, pigment particles can be suspended in water at higher concentrations than other pigment inks, and it makes small ink dots when they are jetting out from head. Therefore, we guarantee the long lasting head durability and the wide color gamut.



### Weathering Test

This test evaluates the resistance of printed output toward the effects of rain and sunlight. As the fading rate is low, the ink is more resistant.

	Mimaki_Fading Rate	InkTec_Fading Rate
Black	0.16	0.1
Cyan	0.63	0.47
Magenta	5.16	2.86
Yellow	2.49	2.87

\* Instrument : Xenon arc lamp - 0.35W/m<sup>2</sup> @ 340nm  
Test Spec, In/Out included. 250h (=10 months outside)



# INKTEC INK REPORT

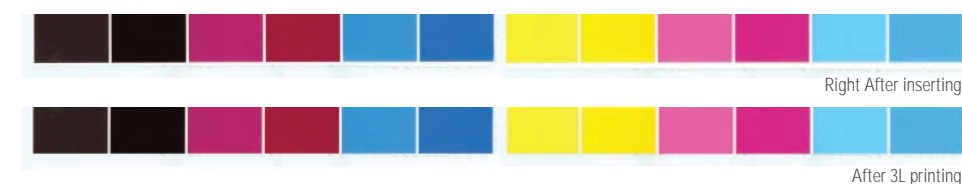
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## IV. Main Factor to Develop Ink

### 03 Reliability

#### \* Long lasting head durability

The quality of inkjet print image is determined by droplet formation. To ensure neatly printed image, the ink droplets jetted from the head should not leave residual image. To secure jet stability under the various environments, InkTec performs the letter printing, continuous printing, non-clogging and humectancy tests, evaluating how the inks affect the heads and how long the head durability is lasting.



\* Since InkTec products are exported to more than 120 countries all over the world, the quality is tested under the following conditions to prevent degradation of the ink during prolong transportation and storage:

- 01 Freezing test
- 02 High temperature test
- 03 Cycling test
- 04 Long-term Preservation Test

The optimum condition for ink storage and use is 15°C~35°C(59°F~95°F), and directly light or extreme coldness should be avoided.

### 04 Health & Safety

The inks from InkTec are made of materials harmless to the human body, and we provide the MSDS (Material Safety Data Sheet) for handling to add safety to the consumers.

**InkTec**  
MSDS No. MOAHP0001(E)

### Material Safety Data Sheet

Revised on: 03/02/2005 MSDS No. MOAHP0001(E) Page 1 of 4

**1. Product and Company Identification**

Product Name :  
Chemical Name : Water-based ink for inkjet printer  
Manufacturer : InkTec Co., Ltd.  
1124, Shingil-dong, Daejeon-gu, Ansan city, Kyungki-do  
425-839, Korea  
Tel : +82-31-493-7388  
Fax : +82-31-492-2041

**2. Composition Information**

Ingredients	% By Weight	CAS No.	EC No.
Black pigments	Less than 1%	-	-
Oil-sol	1%	-	-
Water	99%	-	-

**3. Hazards Identification**

**Emergency Overview :** This product presents little or no hazard if spilled, and no unusual hazard if involved in a fire. Ink components in a liquid that may cause eye irritation. Avoid contact with eyes or clothing.

**Potential Health Effects :**

**Skin :** Ink contact with skin may cause irritation, swelling, or redness. It is not expected to cause an allergic skin reaction.

**Eyes :** Ink contact with eye may be mildly irritating.

**Inhalation :** Incidental exposure to ink vapors may cause respiratory irritation.

**Ingestion :** May cause upset stomach.

**InkTec**  
MSDS No. MOAHP0001(E)

### Material Safety Data Sheet

Revised on: 03/02/2005 MSDS No. MOAHP0001(E) Page 2 of 4

**4. First Aid Measures**

**Skin contact :** Wash surface areas with soap and water. Wash soiled clothing before re-wearing. Seek medical attention if irritation continues.

**Eyes contact :** Wash eyes immediately with large amounts of water. Seek medical attention if eye irritation continues.

**Inhalation :** Remove subject to ventilated fresh air. Consult a physician if necessary.

**Ingestion :** Seek medical advice (and attention if stomach continues to be upset).

**5. Fire Fighting Measures**

**Flammability :** Will not burn.

**Extinguishing Media :** Dry chemical, carbon dioxide, water

**Fire Fighting :** No special fire fighting procedures are required other than treating apparatus. No special explosion hazards are known.

**6. Accidental Release Measures**

If a spill occurs, use sponges to wipe-up ink, then rinse area with damp cloth. Place waste in closed container for disposal. Use proper ventilation. Do not dispose of waste in the sewer. No eye or skin protection required during clean-up. Wash hands with soap and water.

**7. Precautions for Safe Handling and Storage**

**Handling :** Avoid contact with eyes, skin and clothing. Wash hands thoroughly after handling.

**Storage Temperature :** Standard room temperature, 0~30°C

**Storage Precautions :** Keep out of the reach of children and do not drink ink. Keep container closed. Keep away from extreme heat and cold.

**8. Exposure Controls and Personal Protection**

**Exposure Controls :** None required.

**InkTec**  
MSDS No. MOAHP0001(E)

### Material Safety Data Sheet

Revised on: 03/02/2005 MSDS No. MOAHP0001(E) Page 3 of 4

**Personal Protection :** Avoid unnecessary skin contact, wear gloves and sleeves. Wash hands thoroughly after handling. Based on available information, additional ventilation is not required.

**9. Physical and Chemical Properties of Ink Formulation**

Properties	Data	Properties	Data
Appearance		pH	
Color		Boiling point	
Vapor density		Freezing point	
Relative density		Softening point	
Auto-flammability		Flash point	
Explosive properties		Solubility in water	

**10. Stability and Reactivity**

**Stability :** Stable

**Hazardous polymerization :** Will not occur

**Hazardous decomposition products :** None

**Incompatible materials :** Oxidizers and explosives

**11. Toxicology and Health Hazards**

**Routes Of Overexposure :** Eyes, skin, inhalation, and oral

**Acute Health Hazards :**

Overexposure of eye surface to ink may be mildly irritating.

Overexposure of skin to ink contact may cause irritation and in some people swelling and redness.

Intentional inhalation overexposure to ink vapors may result in respiratory tract irritation.

Intentional or accidental oral ingestion may cause an upset stomach.

**Chronic Health Hazards :** None known

**Carcinogenicity :** None known

**InkTec**  
MSDS No. MOAHP0001(E)

### Material Safety Data Sheet

Revised on: 03/02/2005 MSDS No. MOAHP0001(E) Page 4 of 4

**12. Ecological Information**

No information available.

**13. Disposal Considerations**

Treat or dispose of waste in accordance with federal, state and local requirements.

**14. Transportation Information**

No classification assigned.

**15. Regulatory Considerations**

**Markings :** No mark after decree of danger matter

**National regulations :** N/A

**OSHA status :** Product not tested. It is not considered to be toxic per 29CFR1910.1200 but is considered to be a skin/eye irritant.

**International export/import status :** Not determined for every country.

**16. Other Information**

The MSDS contains health, safety, and environmental information. The information contained herein is believed to be accurate at the time of preparation, but should only be used as a guide. Since the condition of handling and use are beyond our control, we assume no liability for loss or injury resulting from the use of this product or the information herein. Safe use of this product is the responsibility of the user. It is subject to revision from time to time.



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## V. Terms of Quality Control & COI



All ink batches manufactured by InkTec is managed through objective quality control. We ensure stable quality of the inks by evaluating the pass/failure of each batch by our own criteria. Furthermore, the printing properties, the consideration during the development of new inks, are also tested to check the ink performance, and the physical properties are measured using the precise analyzers and are recorded on COI (Certification of Inspection) which is offered to public. By testing the manufactured inks for the conditions that were already checked during the development, we ensure that our quality system to be complete and thorough.

### Certification Of Inspection

Certification No. : **Inktec\_QM02-1016****Profile**

Product Name :			<b>XXXX</b>
Description :		Inspection Date :	<b>2002/10/16</b>
Customer :			

Inspection Item	Measurement Method	Measuring Instrument	Remark
pH			
Viscosity			
Surface Tension			

**Inspection Result**

Inspection Item				
pH	Yellow			
	Magenta			
	Cyan			
Viscosity(cps)	Yellow			
	Magenta			
	Cyan			
Surface Tension (dyne/cm)	Yellow			
	Magenta			
	Cyan			

■ Inspector : (Sign : )

■ Approval : (Sign : )

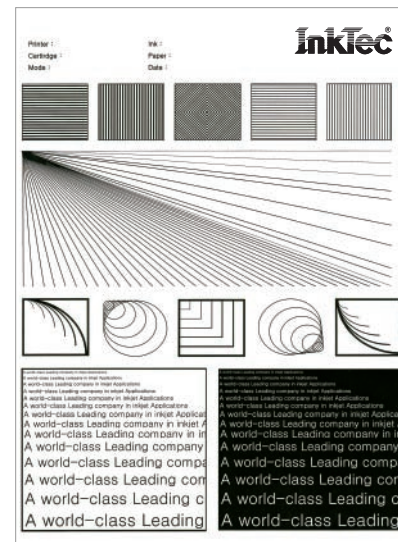
**InkTec**



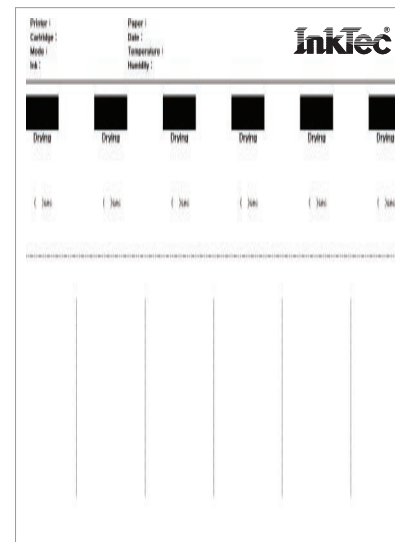
# INKTEC INK REPORT

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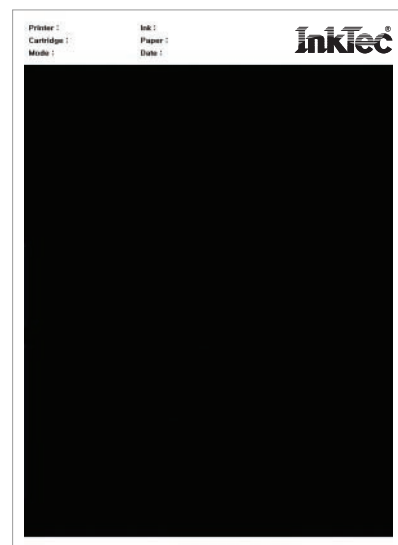
## VI. Test Charts



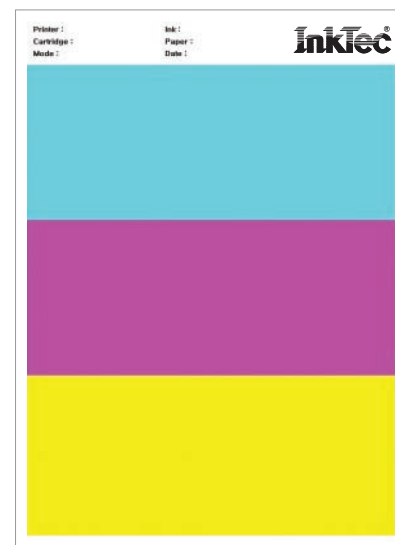
Black Ink Bleeding Test



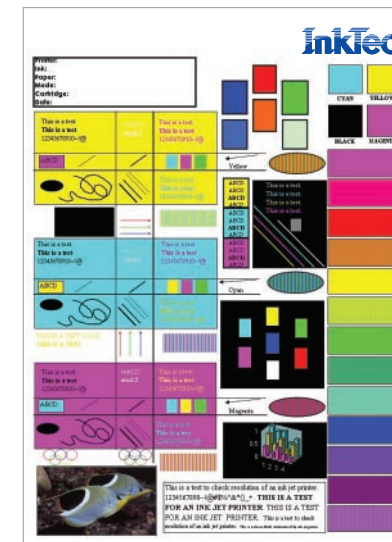
Drying Test



Continuous Printing Test(Black)



Continuous Printing Test(Color)



Bleeding Test



Total Test



CMYK Test



Letter Continuous Printing Test



Color Test Sample1, 2



RGB Test

*Continuous innovation and cutting edge technology are the key of InkTec Quality*



A World-class Leading Company in Inkjet Applications

