



CHROMOINK®
ISO 9001:2015 www.chromoink.com

ink





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Corporate Data



Research & Development

The foundation of our success is based on continuous research and development. The primary objective of our R&D Team is to develop new product to meet market needs. In addition, we maintain intensive coordination with National Research Centers and local larger industries to prospect updated technologies in the market. Entire development is headed toward a future green industry, with environmental friendly as our main principle.

Customer Service

Meet customers' needs are our fundamental priority. With **ISO 9001:2015** and **RoHS** certified, we promise our best to meet customers' satisfaction.

Cheng Feng Group was established in 1973 and mainly devoted to the development and the manufacture of master batches. In order to supply customers with excellent quality and reasonable price, Rainbow Pigment Co., Ltd. was founded in 1980 to manufacture specialized pigment for different applications and other processed goods.

Rainbow Pigment Co., Ltd. an ISO 9001:2015 company, has established "**CHROMOINK**" as registered brand in 2002 to develop Digital Inkjet Ink. The inkjet ink factory is located in southern Taiwan and manufacture inkjet inks, ink dispersions and other functional inks.

Being an Eco-friendly company is our main principle. We never use or produce any ink which contains any harmful ingredient.

For future environment concern, our R&D center is major to develop Latex, water Flexo, etc.



Eco-friendly is our merits

Environmental safety is one of the key principal for Factory management, so do green production line; employee's health. We're headed toward a zero-pollution industry.

Let's make it "Triple WINS"

A sustainable development in an industry, like "**CHROMOINK**", simply bears in mind that the utmost strategy is to create a win-win-win relationship between Customers, Employees and Shareholders. This has been our growth engine since 1973.

Cultivating talents

Personnel training builds the Soul of an enterprise. "**CHROMOINK**" endeavors to coordinate with major academic experts to keep marching toward a nonstop innovative creativity in R&D.



Company History



1973

Cheng Feng plant founded for plastic master batch production in Taiwan.

1983

Rainbow plant finished setting and commenced producing organic pigment 80MT monthly.

1997

Obtained the ISO 9002 certificate.

1999

Established the Cheng Feng-China plant in Dungkwang, China.

2002

Rainbow Pigment China Plant in Hangzhou, China settled to expand the organic pigment production. Promoted "CHROMOINK" as trademark in inkjet inks.

2003

Obtained the ISO 9001:2000 certificate.

2004

CHROMOINK® established in Tainan, Taiwan; focus on inkjet ink production and nano graded dispersions.

2005

- "Cheng Feng Plant" Grand-Opening in Vietnam.
- Suzhou, Cheng Feng Plant established at Suzhou, China.

2008

New "R&D Team" is founded to support electronic industries and other tailor-made dispersions.

2020

LED UV for Flexo Printing.

2019

Water based inks for Flexo/Gravure.

2017

- Grand-Opening of New HQ Building.
- Settlement of New R&D center.

2016

ISO 14001 implemented to reduce pollution.

2015

Awarded The 22th Taiwan SMEs Innovative Award on "LED UV Curing Inkjet Ink".

2014

Grand Open of CHROMOINK PLANT II for expanding production capacity.

2013

Innovative R&D Awarded "SBIR" by M.O.E, Taiwan.

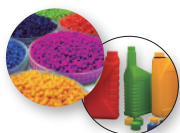
2012

- "R&D Center" settled with technical coordination with major Research Institutes.
- Awarded Nanotechnology Prize by M.O.E, Taiwan.

Company Growth and Product Development

Solid

Liquid



Pigment PE, EVA, Rubber M/B, Offset & Gravure Dispersion

1970-1985



Pigment Chips PP & Engineer Plastic M/B, Flexo & Flush Dispersion

1985-1995



Silicon rubber M/B, PP Fiber M/B, Inkjet Ink, Stationery Paste

1995-2005



Static & Anti-Static M/B, Functional Products, UV Curing, Cosmetic Paste, Other Electric Ink & Color Paste

2005-2016



Food Package M/B, Liquid M/B, Nano disperse M/B, LED UV ink, LED UV Flexo Ink, Water Base Gravure & Flexo ink

2016-2018



Halogen Free Flame Retardant M/B, Antibacterial M/B, LED UV Inks for Flexo/Gravure

2019-2020



CHROMOINK®

Digital Inkjet Ink



UV / LED UV Ink



Type

- LED UV Curing
- UV Curing

Suitable Printhead

- Epson, Ricoh, Konica Spectra, Toshiba

Barcode Ink



Type

- Water Based
- Alcohol Based
- Solvent Based
- LED UV Curing
- Food grade

Suitable Printhead

- HP, Spectra, Konica

Eco Solvent Ink



Type

- Eco Solvent
- Gamma-Butyrolactone free

Suitable Printhead

- Epson, Spectra, Konica

Flexo / Gravure Ink



Type

- Water Based

Media

- Paper, Plastic Film (PE, PET, OPP, CPP, Nylon, etc...)

Textile Ink



Type

- Sublimation Transfer
- Disperse Direct Printing
- Cotton Pigment

Suitable Printhead

- Epson

Stationery Ink



Type

- Water Based
- Oil Based
- Solvent Based

Media

- Glass, Acrylic, Plastic Metal, Paper, etc ...

LED UV Leather Ink



LED UV Leather Ink, special provides for shoes, leather, yoga mat industries. It can comply with kindly of specification, such as RSL, REACH, RoHS, EN71, etc.



Feature

High tensile strength

- ◆ Up to 300% stretchable

Excellen Flexural Strength

- ◆ Up to 100,000 times

Comply with Frozen & Boiling test

- ◆ No fading & cracking in boiling water
- ◆ No cracking in $< -17^{\circ}\text{C}$ frozen testing

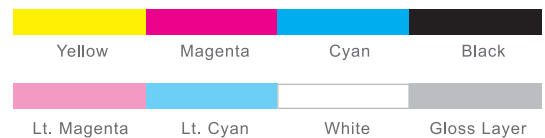
High Quaility

- ◆ Outdoor light fastness > 2 years
- ◆ Comply with SATRA TM55, RSL, REACH, RoHS, EN71 certified

Low Organotin Contert

- ◆ Less Orangotin compounds

Color Range



Suitable printhead

Epson DX5/DX7, Ricoh, Konica, Toshiba, Spectra, etc.



Leater



Yoga mat



Shoes

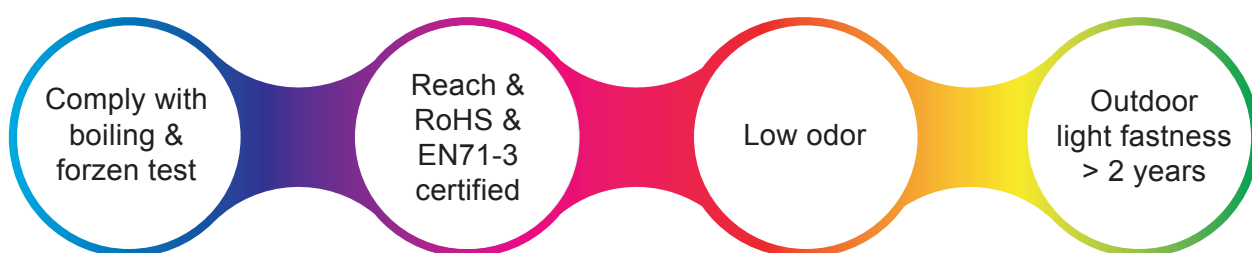
LED UV Curable *Inkjet Ink*

brings you high quality LED UV Inkjet ink



LED UV inks, designed for Piezo printheads, provide bright and stereoscopic printing results on substrates such like glasses, woods, tile, canvas, PET, PMMA, OPP films etc.

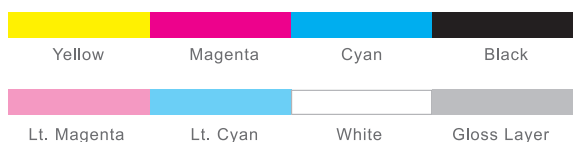
Feature



Ink Type

| | Hard | Flexible | High extension |
|--------------|-------------------------------------|------------------------|---|
| Description | *Hardness: 4H | *Middle extension | *Up to 300% stretchable. *Flexural strength up to 100,000 times. *No cracking in -15°C frozen testing. |
| Applications | Phone case, Glass, PMMA, Wood, etc. | Canvas, PET, OPP, etc. | Leather, Yoga mat, Shoes, etc. |

Color Range



Suitable printhead

Epson DX5/DX7, Ricoh, Konica, Spectra, etc.

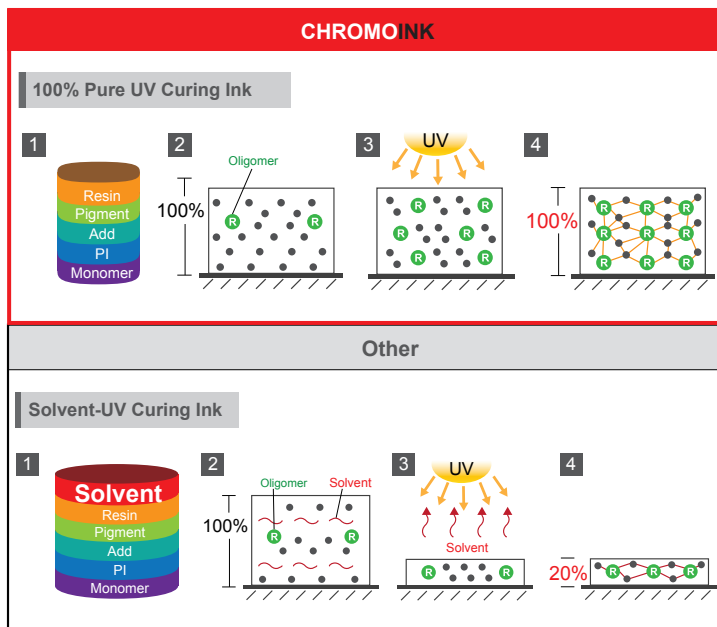
UV Curable *Inkjet Ink*



Feature

Environmental advantages

- Solvent free.
- No VOCs emission.
- RoHS certified.



Higher ink opacity after complete dryness

High quality

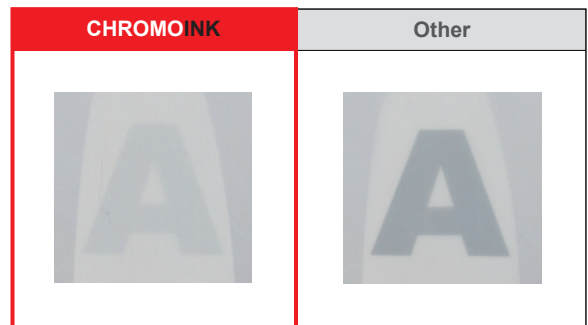
- High color concentration. (Same pass comparison.)
- Better adhesion on a wide range of substrates.
- Excellent light fastness & abrasion resistance.



Color Concentration

Opaque White

CHROMOINK provides high white shielding ink; it helps bring out the gamut & brightness of all colors.



Opaque white

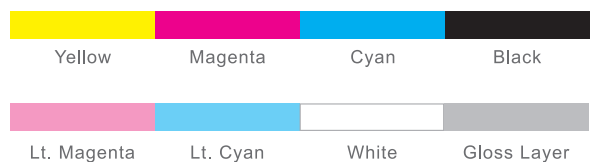
Rapid curing and energy saving Ink

Through mercury lamp, it can be dried in a very short time, which can satisfy fast delivery and increase productivity.

Ink Type: Rigid

- Rigid ink suitable for Glass, PMMA, Wood, etc.

Color Range



Suitable printhead

Ricoh, Konica, Spectra, etc.

Eco-Solvent Inkjet Ink



CHROMOINK® delivers a series of superior and stable Eco-Solvent inks without harmful chemicals, securing longer life for print heads whilst optimizing ink adhesion on coated or uncoated substrates. Our eco-solvent ink has excellent compatibility with original brands, presents twice the performance and quality with brilliant color gamut.

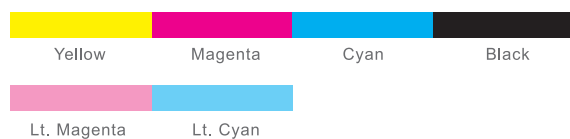
Features

- ♦ **Outdoor light fastness >2 years.**
- ♦ **Comply with EN71-3, RoHS certified.**
- ♦ Low Odor.
- ♦ Wide Color gamut.
- ♦ Compatible with major brand's print heads.

New Series

- ♦ Gamma-Butyrolactone free.
- ♦ Color intensity close to M-brand SS21 series ink.

Color Range

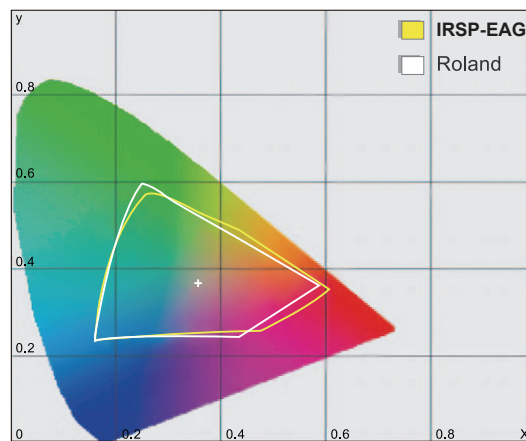


Suitable printhead

Epson DX5/DX7, Konica, Spectra, etc.

Package

- ♦ 1L/ 5L/ 20L bottle
- ♦ 220ml/ 440ml cartridge
- ♦ 1L/ 1.5L/ 2L ink bag



Color Comparison of Eco Solvent Ink. between Chromoink Ink and Roland Ink.



Digital Sublimation *Inkjet Ink*



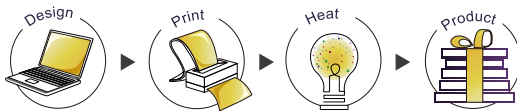
CHROMOINK® has various series of inkjet inks designed for Textile printing.
More cost saving and better production efficiency comparing to traditional screen printing.
Customers can select the suitable ink type according to desired textures of printing.

Ink Type

A. Direct Printing (IDD)

Print directly on the polyester fibers and then heat up the image.

Application ♦ Flags
♦ Polyester



B. Sublimation Transfer Printing (ITD)

Trough transfer paper, images can be transformed on desired surface, such like polyester fibers, porcelain and metals adhere.

Application ♦ T/C ♦ Wood
♦ Polyester ♦ Metal
♦ Glass ♦ Ceramic
♦ Mug



C. Fluorescent Sublimation Ink



Graphic under Daylight

Graphic under UV light

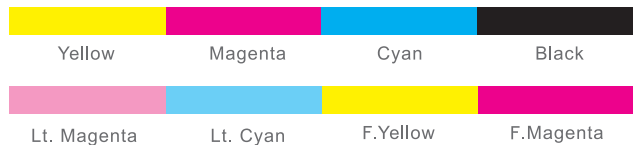
Color ♦ Fluorescent Magenta/ Yellow
Combination ♦ General Cyan/ Black

Features

| Disperse Dye Ink | | | |
|--------------------------------|-------|------------|-------|
| Type | | Criteria | Grade |
| Color Fastness to Rubbing * | Dry | JIS L 0849 | 4 |
| | Wet | | 5 |
| Color Fastness to Washing ** | Fade | JIS L 0844 | 5 |
| | Stain | | 5 |
| Color Fastness to Dry Heat *** | Fade | JIS L 0879 | 5 |

JIS : JAPANESE INDUSTRIAL STANDARD

Color Range



Suitable printhead

Epson DX5/DX7, Konica, Seiko, Ricoh, Spectra, Kyocera, etc.

Package

- ♦ 1L/ 5L bottle
- ♦ 440ml cartridge
- ♦ 1L/ 1.5L/ 2L ink bag



Digital Cotton Printing Ink (DTG) *Inkjet Ink*



Description

Cotton Ink series is water pigment based. Apply on cotton fabrics directly, suitable for DTG or DX5. This series comply to RoHS, contains no harmful chemicals, good performance on light and washing resistance.



Features

No Pre-treatment

- ◆ Soft Texture.
- ◆ Good permeability of fabric.

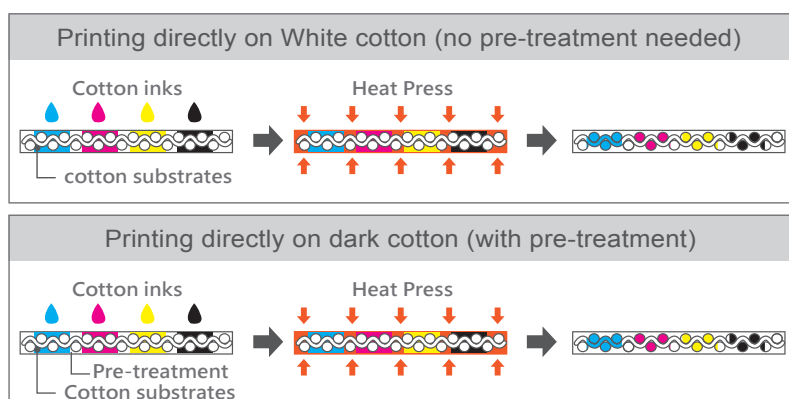
High Quality

- ◆ No migration.
- ◆ No Bleeding.
- ◆ Good performance of washing fastness
- ◆ Outdoor fastness > 2years.

Environmentally Friendly

- ◆ No heavy metal & Azo dyes compound.
- ◆ Saving from water treatment.

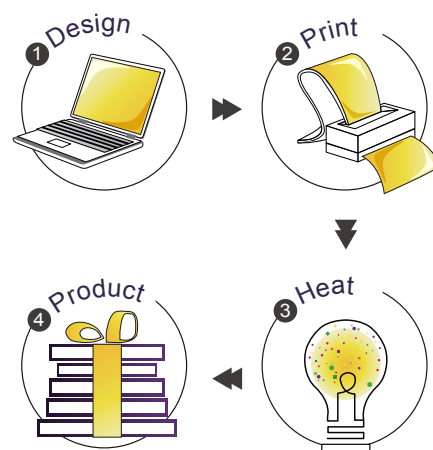
| CHROMOINK vs. Other brands | | | |
|---------------------------------|-----------|--------|-----------|
| | CHROMOINK | OEM | Other Ink |
| Pre-treatment | No 👍 | Yes | Yes |
| Color fastness to washing grade | 4-5 👍 | 4-5 👍 | < 3 |
| Cost | Low 👍 | High | Low 👍 |
| Color Brightness | High 👍 | High 👍 | Low |
| Clogging | No 👍 | No 👍 | Yes |



Textile Inks Application Procedures

Direct Printing on Cotton (IEP-COT) :

Print directly on the cotton fibers and then heat up the image.



Product List

| Item No. | Ink Type | Color | Application | Package |
|----------|---------------|---------|-------------|---------|
| IEP-COT | Water Pigment | Y/M/C/K | Cotton | 1L |

- Compatible Cartridges are also available for certain product lines.
- Pre-treatment is also available.

Water Based Flexo Ink

Special For PET / Nylon / OPP / CPP / PE / PP Film, Paper, etc.

Global environmental protection and food safety are awareness, as well as the dangers of organic solvent transportation and storage.

Water based Flexo ink for plastic film comply with USEPA & China GB 37822-2019 specification

Feature

Food Safety

- ◆ Comply with steam & boiling test up to 121°C, 30mins; Apply to food package

Variable printing speed

- ◆ Suitable for variable printing speed (>300m/min).

Environmental friendly

- ◆ EN71-3 & RoHS certified.

Excellent Adhesion

- ◆ Good adhesion for various processed plastic films.

Future Perspectives



High Productivity Food Package Safety

Package

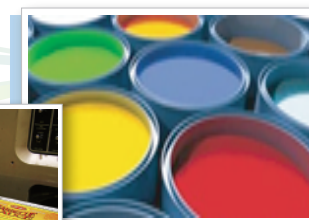
20kg/200kg/1 ton

Colors

Refer to Color Guide P.14

Remark

Additive, thinner, thickener available upon request.

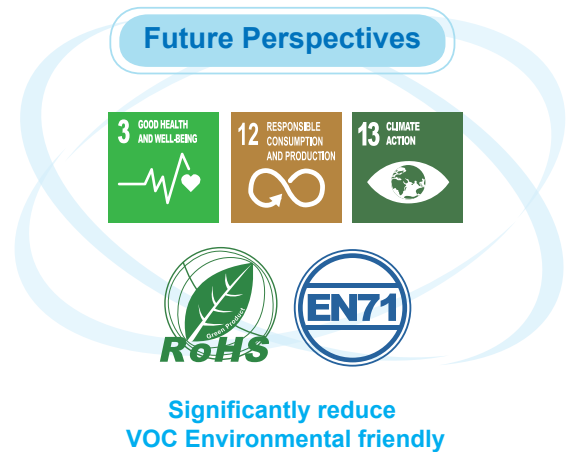
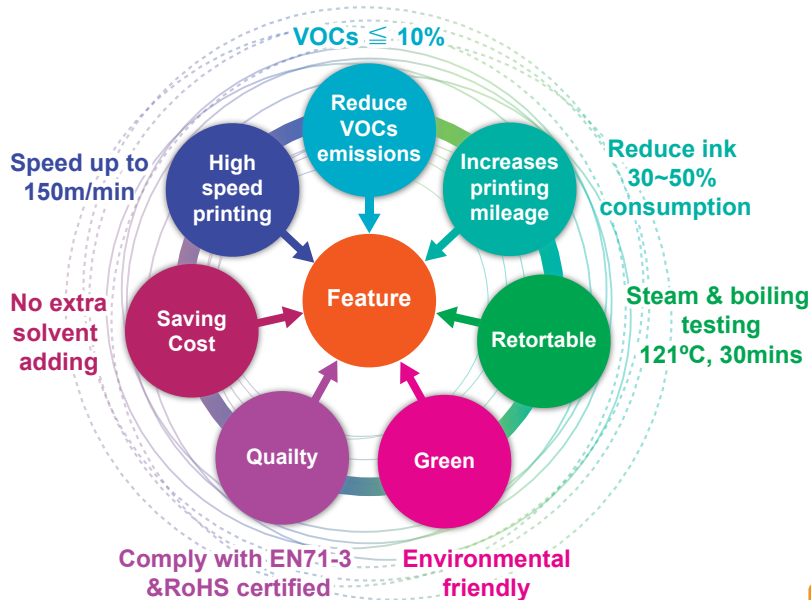


Applicability & Adhesion Testing

| Tape Testing | OPP | PET | PP | PE | Nylon | CPP |
|------------------|-----|-----|----|----|-------|-----|
| Room Temperature | ● | ● | ● | ● | ● | ● |
| Steam | ● | ● | ● | ● | ● | ● |
| Boiling | ● | ● | ● | ● | ● | ● |

Water Based Gravure Ink

For more safety on storage & transportation, Water based gravure ink would be Eco-friendly choice to replace solvent based inks. Printing performance is same as solvent gravure ink. Also comply with USEPA & China GB 37822-2019 specification.



Package

20kg/200kg/1 ton



Colors

Refer to Color Guide P.14

Remark

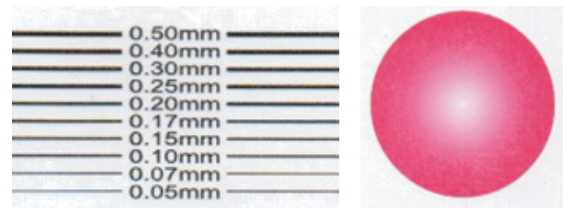
Additive, thinner, thickener available upon request.

Comparison with Water Gravure ink & Solvent ink

| Ink Type | Other brand Solvent Ink | CHROMOINK Water Gravure Ink |
|--------------------------|---|---|
| Main Solvent | Solvent | Water ✓ |
| Adhesion on plastic film | Good ✓ | Good ✓ |
| Color Density | Normal | Good ✓ |
| Environment Friendly | Bad ✗ | Good ✓ |
| Storage Dangerous | High ✗ | None ✓ |
| COD | High ✗ | Low ✓ |
| Printing Sample |  |  |

High Quality

High density and excellent solubility for HD printing.



Barcode Inkjet Ink



CHROMOINK® offers customized ink and meets regulations for Barcoding industry. Providing professional service and printing experience, **CHROMOINK®** is your unique solution for barcoding.

Products

- ◆ Egg shell coding ink (Food grade)
- ◆ Corrugated Carton Ink
- ◆ TIJ Barcode Ink
- ◆ Piezo Jet Barcode Ink

Ink Type

- ◆ Water based
- ◆ Solvent based
- ◆ Oil based
- ◆ UV/LED UV based

Suitable printhead

HP/ Lexmark/ Spectra/ Konica/ Ricoh/ Seiko

Features

- ◆ Comply with FDA21 / RoHS certified.
- ◆ Fast Drying.
- ◆ Compatible with the ink specification of major brands.
- ◆ No harmful chemical used.
- ◆ High resolution

Applications

- ◆ **Non-absorbent:**
PVC, PP, PE, Metal, Glass, Acrylic, Foil film, etc.
- ◆ **Absorbent:**
Egg, Shell, Waybill, Carton, etc.



Carton Printing
紙箱列印



Bar-coding Ink
噴字機墨水



Stationery Ink

CHROMOINK® has continued to invest and develop the next trailblazing technology for the stationery market, offer an ideal solution for various applications complying with RoHS/Reach requirements. **CHROMOINK®** is able to offer such a solution and look forward to developing competitive inks to meet customers' needs.



Environmental Friendly

Chemicals components containing no hazardous or heavy metals.

Ink Safety

Complies with RoHS & Reach regulations.

Customization

Tailor-made quality inks for large consumption.

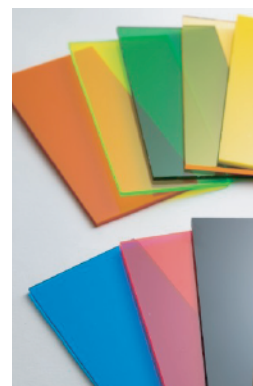
Ink Type

Stamp Inks

| Type | Suitable applications |
|---------------|--|
| Oil based | Textile, Wrapping paper, Frozen Packaging Plastics |
| Solvent based | Both absorbent & non-absorbent substrates |
| Water based | Self-inking systems |
| | Thumb inks |

General Marking inks

| Type | Suitable applications | |
|---------------|--------------------------|--|
| Water based | Absorbent substrates | Papers, cartons, woods... |
| | Non-absorbent substrates | Rubber, plastics, glass, acrylics, ceramics... |
| Solvent based | | White board |



CHROMOINK® Water based Gravure & Flexo Ink Color Guide

| Color shade | Color | Light fastness grade | Boiling test | Steaming test | RoHS certified |
|---|--------------------|----------------------|--------------|---------------|----------------|
|  | White | 8 | V | V | V |
|  | Yellow | 5 | V | V | V |
|  | Transparent Yellow | 5 | V | V | V |
|  | Orange | 4 | V | V | V |
|  | Red | 3 | | | V |
|  | Magenta | 5~6 | V | V | V |
|  | Magenta Blue shade | 4 | | | V |
|  | Peach Red | 6~7 | V | V | V |
|  | Violet | 6~7 | V | V | V |
|  | Blue | 8 | V | V | V |
|  | Green | 8 | V | V | V |
|  | Black | 8 | V | V | V |

Color Shade varies from computer screen. Please contact us for more information. Thank you.

Quality
Knowledge
Environmental
Service

Rainbow Pigment Co., Ltd.



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PRODUCT

CATALOG