



PACIFIC LABELING



INDUSTRIAL INKS & SOLVENTS

**UNDERSTANDING THE
PRODUCT RANGE FROM
LEIBINGER, SQUID INK,
AND NORWIX**

INTRODUCTION

In industrial coding and marking, **ink selection is as critical as the printing technology itself**. The right ink formulation ensures **durability, adhesion, readability, and compliance** with industry standards. From **high-speed continuous inkjet (CIJ) printing** to **thermal inkjet (TIJ) and UV-curable applications**, selecting the appropriate ink type directly impacts production efficiency and product integrity.

At **USInks.com**, we supply **high-quality industrial inks and solvents** from **Leibinger, Squid Ink, and Norwix**—leaders in **reliable, high-performance coding and marking solutions**. This white paper provides an in-depth look at the **various ink types, their applications, advantages, and compatibility with different substrates**.

1 LEIBINGER INDUSTRIAL INKS & SOLVENTS

1.1 Continuous Inkjet (CIJ) Inks

Leibinger produces **high-performance CIJ inks** designed for use in **Leibinger's continuous inkjet printers**, ensuring optimal print quality, adhesion, and longevity.

Types of CIJ Inks from Leibinger:

- ✓ **MEK-Based Inks** – Fast-drying, high-contrast inks used for **non-porous materials** like plastics, glass, metals, and films.
- ✓ **Ethanol-Based Inks** – Less volatile alternative to MEK, offering **good adhesion on porous and non-porous surfaces**.
- ✓ **Acetone-Based Inks** – Ultra-fast drying with **exceptional adhesion**, used in **high-speed production lines**.
- ✓ **Pigmented Inks** – Designed for **high-contrast printing on dark or colored backgrounds**, commonly used in **automotive, electronics, and aerospace industries**.
- ✓ **Food-Grade Inks** – **Compliant with food safety regulations**, ideal for **direct or indirect food packaging applications**.
- ✓ **UV-Readable Inks** – Invisible under normal light but **fluoresces under UV light**, used for **anti-counterfeiting and security marking**.



Leibinger IQ Jet Ink & Solvent
Cartridge Housing



Leibinger IQ Jet
CIJ Printer

1.2 Leibinger Solvents & Additives

Leibinger solvents are used for **printhead cleaning and ink dilution** in CIJ printers, ensuring consistent performance and **preventing nozzle clogs**.

- ✓ **Make-up Solvents** – Used to **maintain viscosity and extend ink life** in continuous operation.
- ✓ **Cleaning Solutions** – Essential for **preventing dried ink buildup**, keeping printheads clear for consistent performance.

Best Applications for Leibinger Inks & Solvents:

- ✓ **High-speed beverage and food packaging**
- ✓ **Printing on plastic, metal, glass, and flexible packaging**
- ✓ **Traceability codes, expiration dates, and batch numbers**

2 SQUID INK INDUSTRIAL INKS & SOLVENTS

2.1 CIJ, DOD, and High-Resolution Inkjet Inks

Squid Ink provides a **diverse ink portfolio** for **CIJ (continuous inkjet)**, **DOD (drop-on-demand)**, and **high-resolution inkjet printing applications**.

Types of Squid Ink Industrial Inks:

- ✓ **CIJ Solvent-Based Inks** – Compatible with **Squid Ink's continuous inkjet printers**, available in **MEK, ethanol, and acetone-based formulas** for quick drying and superior adhesion.
- ✓ **DOD Large Character Inks** – Used for **case coding and secondary packaging**, with options in **solvent-based, oil-based, and pigmented formulations**.
- ✓ **UV-Curable Inks** – Designed for **high-resolution UV inkjet printing**, providing **instant curing and superior adhesion** on **coated and non-porous surfaces**.
- ✓ **Water-Based Inks** – Ideal for **corrugated cases, paper-based substrates, and porous materials**, offering **low-VOC emissions and environmentally friendly printing**.



Squid Ink CoPilot
Max TIJ Printer



Squid Ink CoPilot TIJ Ink
Cartridges

2.2 Squid Ink Solvents & Cleaners

- ✓ **Make-Up Fluids** – Maintain ink viscosity and proper formulation in **CIJ systems**.
- ✓ **Cleaning Solutions** – Designed for **removing dried ink and preventing printhead blockages**.
- ✓ **Specialty Additives** – Used to **enhance ink properties, improve adhesion, and ensure consistent performance across different environmental conditions**.

Best Applications for Squid Ink Products:

- ✓ Industrial coding for packaging, wood, and metal parts
- ✓ Large character case coding & pallet marking
- ✓ UV-cured product marking for high-resolution graphics

3

NORWIX AQUEOUS INKS

3.1 Aqueous TIJ Inks

Norwix specializes in **aqueous-based thermal inkjet (TIJ) inks**, used in **high-resolution product marking, barcode printing, and secondary packaging applications**. These inks are designed for use in **Norwix TIJ printers**, offering **exceptional print quality with minimal maintenance**.

Types of Norwix Aqueous Inks:

- ✓ **Standard Aqueous Inks** – Water-based formulations for porous surfaces like **cardboard, paper, and wood**.
- ✓ **Fast-Dry Aqueous Inks** – Developed for **semi-porous materials**, allowing for **quicker absorption** and reduced smudging.
- ✓ **Food-Grade Aqueous Inks** – **Certified for direct food contact** or indirect packaging applications, ensuring **safe and compliant marking**.
- ✓ **High-Contrast Pigmented Aqueous Inks** – Formulated for **dark surfaces**, providing **strong readability** even in low-light conditions.



Norwix Aqueous
TIJ Ink Cartridge



Norwix UC22 TIJ
Case Coder

3.2 Advantages of Norwix Aqueous Inks

- ✓ **Environmentally Friendly** – No **volatile organic compounds (VOCs)**, reducing emissions and workplace hazards.
- ✓ **No Solvent Maintenance** – Unlike CIJ systems, **TIJ does not require solvent flushing** or regular viscosity adjustments.
- ✓ **High Resolution** – Up to **600 dpi**, ensuring **clear, readable barcodes and text**.

Best Applications for Norwix Aqueous Inks:

- ✓ **High-quality carton and case coding**
- ✓ **Food and beverage secondary packaging**
- ✓ **Warehouse and logistics barcode printing**

4 CHOOSING THE RIGHT INK FOR YOUR APPLICATION

Each industrial ink formulation is designed to meet **specific performance requirements**, from **fast-drying high-speed coding** to **UV-resistant, durable marking for outdoor applications**. Below is a quick comparison of the available ink types from **Leibinger**, **Squid Ink**, and **Norwix**.

Ink Type	Leibinger (CIJ)	Squid Ink (CIJ, DOD, UV)	Norwix (TIJ)
MEK-Based	✓ Fast-drying, high adhesion	✓ Used for fast-dry CIJ marking	✗ Not Available
Ethanol-Based	✓ Moderate-dry alternative	✓ Lower VOC alternative	✗ Not Available
Acetone-Based	✓ Ultra-fast drying	✓ High-speed marking	✗ Not Available
Pigmented Inks	✓ High-contrast for dark surfaces	✓ DOD and large character printing	✓ Water-based pigmented for porous surfaces
Food-Grade Inks	✓ FDA-compliant inks available	✓ Food-safe options for TIJ & CIJ	✓ Safe for direct food contact
UV-Curable Inks	✗ Not Available	✓ Used in Squid Ink UV LED printers	✗ Not Available
Water-Based Aqueous Inks	✗ Not Available	✓ For case coding	✓ High-resolution for porous surfaces

CONCLUSION:

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Selecting the right **ink or solvent** is critical for **achieving optimal print performance, longevity, and compliance**. Whether you need **high-speed CIJ inks, durable solvent-based formulations, UV-curable inks, or eco-friendly aqueous solutions**, **USInks.com** offers **top-tier products from Leibinger, Squid Ink, and Norwix**.

Our team provides **expert guidance on ink selection, troubleshooting, and system integration** to ensure that your **coding and marking operations run smoothly and efficiently**.

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&INTEGRATION

**CONTACT US TODAY TO DISCUSS
HOW WE CAN HELP OPTIMIZE
YOUR CODING, MARKING, AND
LABELING OPERATIONS!**

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