Pro-Jet™ Aqueous Inks

Proprietary high performance aqueous inkjet inks, custom designed for a wide range of uses including industrial manufacturing processes, textile printing, packaging and commercial print applications.
AT OUR INK TECHNOLOGY CENTRE, WE COMBINE CUTTING EDGE TECHNOLOGY DEVELOPMENT WITH MANUFACTURING EXPERTISE TO CREATE HIGH PERFORMANCE AQUEOUS INKS.

With the largest aqueous ink production facility in the world and a heritage in colorant invention, FUJIFILM Imaging Colorants are uniquely positioned to develop novel colorants and inks to meet the evolving needs of the growing aqueous inkjet market.

INNOVATION, LEADERSHIP AND TECHNOLOGY

The Ink Technology Center is our state-of-the-art research facility where we are developing the next generation of proprietary inkjet inks. Our team of chemists and engineers combine over twenty years of colorant and polymer design expertise with cutting edge techniques and industry leading equipment to produce innovative solutions for a wide variety of technical needs across a range of industries and markets.

Our pigment dispersions use novel proprietary reactive dispersant technology, RxD™, and supplement our existing Pro-Jet™ dye-based liquids. Pro-Jet RxD™ technology enables design flexibility in ink with outstanding image robustness while our Pro-Jet™ dyes allow the creation of inks with deep color saturation, wide color gamut and strong chroma.

AQUEOUS INK TECHNOLOGY PLATFORMS

At the ITC we have developed a series of technology platforms which can be optimized for a wide range of applications.

Due to the stringent requirements of the inkjet industry our technology delivers the very highest standards of quality and reliability, underpinned by excellent jet design and with the possibility of very rapid dry times. In addition, our ink platforms allow FFIC to jet a wide range of materials including dyes, pigments (including white), emulsion polymers and solution polymers.

Our industrial capability and manufacturing flexibility means that FFIC can offer a range of dye based inks for commercial print and textile applications, pigment inks for commercial print and packaging applications as well as pigment with emulsion polymer for commercial print, industrial and packaging applications.
APPLICATIONS

Inkjet technology is being adopted across a wide range of industries including laminates, flooring, product marking, building wrap and wall covers. These diverse sectors utilize a wide variety of substrates including paper, wood, nonwovens, plastics and film. High image quality, robust images and vibrant colors are just some of the features which make FFIC inks an excellent choice in these tough applications.

INDUSTRIAL INKS

PACKAGING INKS

Digital print technology offers a flexible approach to short production runs making aqueous inkjet ideal for new and mature packaging production lines, enabling print to film, board and paper substrates. While conditions such as extreme temperatures, small spaces, high line speeds and harsh environments pose challenges for adoption of digital printing, FFIC works collaboratively with integrators to understand the system requirements and tailor our inks accordingly.

COMMERCIAL PRINTING INKS

New commercial digital printing machines are designed with increased line speeds, faster ink drying times, improved print quality and with the ability to print different substrates. FFIC inks are developed to keep pace with these needs and offer excellent color and fastness for these demanding applications.

TEXTILE INKS

FFIC offer a wide range of reactive dye inks finely tuned to offer excellent color and fastness on cotton. Our textile inks are designed to work seamlessly with all pre-treat and post-treat processes commonly used in the textile industry. In addition they have been optimized for superb jetting performance for a variety of piezo printheads.
QUALITY MANUFACTURING

Our heritage is based on the continued delivery of market leading products for global customers. The success of our approach is reflected in the long term relationships we have established with our customers who require inks manufactured to the most exacting standards of quality assurance.

FFIC offers customers a highly flexible asset with pigment and dye segregation as well as a wide range of manufacturing scale options. A key feature of our ink manufacturing process is our stringent quality control, with processes including carbon treatment, ion exchange, reverse osmosis and sub-micron filtration.

Our Research, Technology and Manufacturing groups work seamlessly together embodying our principles of product excellence and continuous improvement. Our specialist analysis, regulatory and IP teams at FFIC offer a complete capability from product invention through to established manufacture. At FFIC, we are constantly seeking to improve our performance and seek innovative ways to delight our customers.

COLLABORATION WITH PARTNERS

Close cooperation with printhead suppliers and integrators ensures our products are optimized to perform reliably in extreme conditions and continue to meet the requirements of any manufacturing process. This collaborative approach provides a total solution which enables quicker conversion to digital printing. With inks individually tuned to a wide range of commonly used piezo printheads, every formulation ensures high reliability in jetting and overall ease of use.

CONTRACT MANUFACTURING OPPORTUNITIES

Our inkjet production facility, located in Delaware, USA, is the largest aqueous inkjet facility in the world. We use ground-breaking technology providing unique, cost effective solutions for our customers.

Recognising the importance of time-to-market we apply a process honed by over 2 decades’ experience with leading OEM customers. This results in a highly efficient development cycle through to commercialisation; we offer flexibility in scale and are committed to the highest standards of quality and process control. Furthermore, we work with our strategic supply partners to ensure lowest cost solutions.

With unsurpassed capacity facilities in Delaware and a worldwide distribution network, FFIC can supply ink to any global location.

FACILITIES OVERVIEW
- Annual capacity for >20 million litres ink
- Flexibility in scale 10L – 22,000L
- De-ionised water capacity of 500,000L/day
- Suite of purification options
- Fine powder containment
- In-house effluent control
- Cleanroom facilities for enhanced bacterial control

FACILITIES
- Overview
To find out more about our capabilities and services or to discuss a pending project we can assist with, please contact:

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Comprehensive regulatory support
Fully REACH compliant, we design products specifically to meet customers’ performance targets and toxicological, environmental and regulatory standards. With access to world-leading product testing laboratories, our experienced team of in-house regulatory specialists provide fully integrated quality assured support for worldwide product registration.

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