



## About Us

Diversified Nano Solutions Corporation (DNSC), based in San Diego, California, specializes in developing and manufacturing nano materials and fluids used in high-performance functional inks for digital printing, unique customer applications, research and surface treatments. DNSC has developed an extensive product line of inks known as x-nano™, providing a range of solutions that utilize nanoparticles in long-term stable suspension, including MICR inks (Magnetic Ink Character Recognition), invisible color (RGB) fluorescent inks (UV [250-365nm] /IR [780-1050nm]), special pigmented/hybrid inks, and special pigmented/hybrid inks for food grade and non-food applications. These digital inks address dot-on-demand inkjet applications based on thermal and piezo print heads using aqueous, oil, energy curable (UV/LED) and eco-solvent based inks. The company maintains high volume manufacturing facilities in Europe and the USA.

## About MICR Ink

DNSC K-Series MICR inks are created using high-density, ultra-stable magnetic nanoparticles. MICR inks are widely used today by industrial and commercial users of high-speed inkjet presses, as well as home and office users of desktop inkjet printers for bank compliant check printing, long lasting archival documenten-

tation, security applications, payments and premium quality prints. Digital inkjet printers, all-in-one systems and fax machines can be equipped with MICR ink cartridges.

## About INKcrypt® Ink

DNSC INKcrypt® uses biological encryption ink identity technology and offers ink security upgrade to our various ink platforms—ideal for unique, ultra-secure, anti-counterfeit inkjet printing. By customizing ink with unique DNA markers as a positive differentiator between original and copy, Biological Encryption Ink eliminates losses from growing counterfeit activity by making your products & items instantly DNA-identifiable.

## About CMYK-Channel & Specialty Ink

DNSC V-Series, E-Series and S-Series inks are based on dye and pigment nanoparticles formulated with special ingredients to achieve an unprecedented coverage and ultra-smooth appearance on various substrates. Both Value and Elite inks are available for desktop, industrial and commercial print applications utilizing thermal and piezo print heads that are compatible with a variety of manufacturers.

## About Invisible IR/UV Fluorescent Ink

DNSC I-Series are invisible digital inkjet

inks that allow for enhanced security printing applications and features with detection by UV or IR light. Security data could include: “stealth” tracking

(1D and 2D barcodes, signatures, watermarks), document authenticity (tickets, passport, driver’s licenses, currency), secret information delivery, entertainment and fun applications. These inks can be printed, airbrushed, or hand-drawn on a variety of media without interfering with other content.

## About Special Effect Materials

DNSC X-Series offers a new family of pigment powders and dispersions as base components for custom development and production of ink, paint, paste, dispersion, gel, cream and powder. These special effect raw materials: glow in the dark, fluoresce, absorb IR, and change color with light or heat. X-Series materials have extraordinary properties for various unique market applications.

## About Food Grade Pigments

DNSC F-Series is a new family of food grade pigment powders for printing on various foods, bioorganic surfaces and packaging substrates. Users can develop, produce and market applications based on the properties and regulatory compliance requirements associated with food and food grade materials and packaging.



Revolutionary INKcrypt® technology was developed and IP protected by our team of US and German scientists to eliminate growing worldwide losses from counterfeiting and fraud. The system utilizes ink with unique DNA-identity as a positive differentiator between original and copy. A wide variety of inks for use in printing systems such as inkjet, flexo, gravure and writing instruments is now available with unique INKcrypt® DNA-identity to facilitate instant consumer authentication on the spot. INKcrypt® Ink can be purchased from [inkcryptink.com](http://inkcryptink.com) or licensed print system manufacturers.



INKVERSE™ Infinite Ink Infuser is a continuous ink system that provides an open-ended and uninterrupted ink supply to inkjet devices, regardless of print head technology and performance. The system is quickly adaptable to accommodate a variety of ink types and ink/print volume requirements. INKVERSE™ blades are expandable and connect to any print system from low volume desktop to high-speed production presses. With a simple QuickConnect process, installation at the user level is seamless, or can be preconfigured during system assembly.



specialFX™ is a new X-Series of Special Effect Materials developed by DNSC, offering a new family of pigment powders and dispersions as base components for custom development and production of ink, paint, paste, dispersion, gel, cream and powder. These special effect raw materials: glow in the dark, fluoresce, absorb IR, and change color with light or heat. X-Series materials have extraordinary properties for various unique market applications.



VersaJette™ Stealth Inkjet is a series of inkjet printer systems that offer unlimited security and flexibility with enhanced document control and print output. Users can print invisible content on documentation, like hidden text, barcodes, QR codes, copyrights and watermarks. Security authentication can also be added to labels, certificates, tickets, invitations, photographs and more. Powered by TransChrome™ Invisible Imaging Generator, our unique Stealth series with high-quality invisible UV fluorescent inks offer capabilities beyond any standard color inkjet or laser printer.



TransChrome™ Invisible Image Generator is a software application that enables your print driver to convert 4-color CMYK “visible” images into 4-color RGB UV fluorescent “invisible” images. The software is designed for use with standard desktop printers and Stealth-enabled all-in-one print systems using UV fluorescent inkjet inks in white, red, blue and green. Since the UV printed content only appears visible under ultraviolet light, you can easily add hidden security and authentication to your printed information to protect against fraud and counterfeiting.



X-Base Global™ is DNSC’s new ink manufacturing license program for high-performance on-demand digital inks offering total quality shelf life. Authorized members can now save on inventory and product costs. Quick-start with X-Base dispersions and standard off-the-shelf DNSC X-Base cofactor solutions, or develop and use your own suitable ink solvent add-ins, to fast track your ink production.



x-nano™ brand inks are an extensive line of DNSC digital inks for high-resolution, high-performance digital inkjet printing. x-nano™ inks include high-quality, low-cost black & color dye inks (V-Series), pigment inks (E-Series), special ultra-fast dry inks (S-Series), magnetic MICR inks (K-Series), invisible fluorescent color (RGB) inks, infrared-absorbing inks (I-Series), and special inks for food grade (F-Series), textile (T-Series) and special effect applications (X-Series). The company’s digital inks target dot-on-demand inkjet applications based on thermal and piezo print heads using aqueous, oil, energy curable (UV/LED) and eco-solvent based inks.