



## 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 documentation, 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 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.



New DNSC INKcrypt™ is based on revolutionary biologic identity technology to provide highly sophisticated anti-counterfeit protection, accurate tracking and authentication of products and printed items broadly. Hidden in the ink are traces of unique biologic identity markers which are encrypted and impossible to counterfeit. INKcrypt™ Ink can be used to monitor and trace any object, by allowing you to perform an easy-to-use test to identify your unique ink on the spot to determine authenticity of your property, product, document or tag. INKcrypt™ Ink is offered custom-made with any x-nano™ ink formulas including MICR and Invisible UV inks, to provide you with the best brand protection, anti-counterfeit safeguards and document security available!



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.