

TECHNICAL DATA SHEET

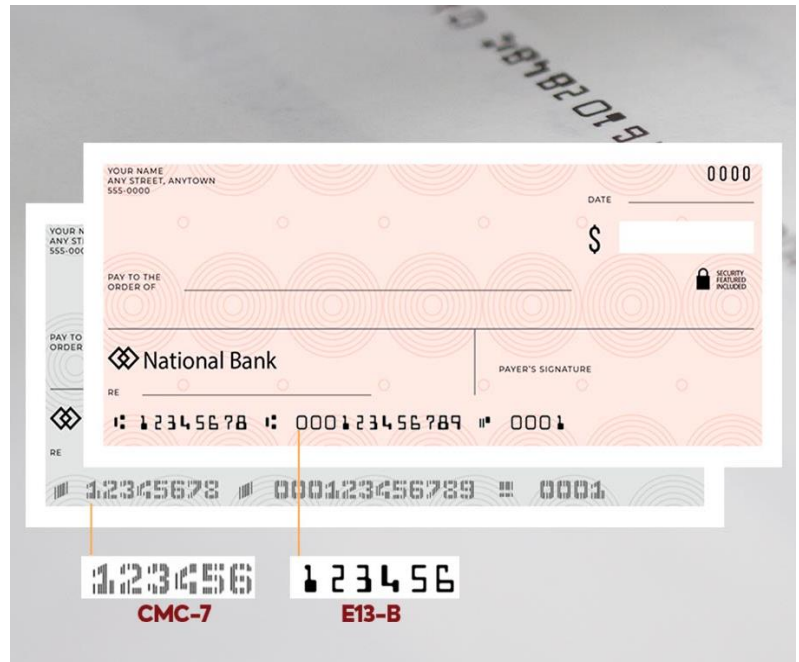
Nanum[®] MICR Inkjet Ink

Description

Nanum[®] MICR Inkjet Ink NK010913 is a water-based ink produced with our special metal oxide nanoparticles. It features prolonged stability, extended shelf life and low sedimentation rate due to its functionalized pigment, which is treated with strong chemical bonds while in its production phase, rather than conventional coatings used in most inkjet ink formulations. It also provides everlasting documents with high water and light fastness.

Application

NK010913 is an ink compatible and intended to be used with Kyocera KJ4B printhead to print bank checks, security ID and other security documents, enabling quality printing with high optical density and excellent magnetic signal levels.



Properties:

Product name:	Nanum MICR Inkjet Ink NK010913
Ink vehicle:	Aqueous
Ink type:	MICR
Physical form:	Black liquid
Average Particle size (nm):	40 – 60
Viscosity (cP):	6 – 8
Surface tension (dyne/cm):	36 - 39
pH:	6.0 – 8.0
Specific gravity (g/cm ³):	1.35 – 1.38
Conductivity (μS/cm):	500 - 800
MICR Signal:	110 – 130%*



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Shelf life

NK010913 should be stored in a cool dry place with optimal temperature range for storage between 41 °F – 95 °F (5°C – 35 °C). This product has a shelf life of 2 years from the manufacture date when stored under the mentioned conditions. Exposing the ink to higher or lower temperatures may cause loss of its properties and/or printing performance.

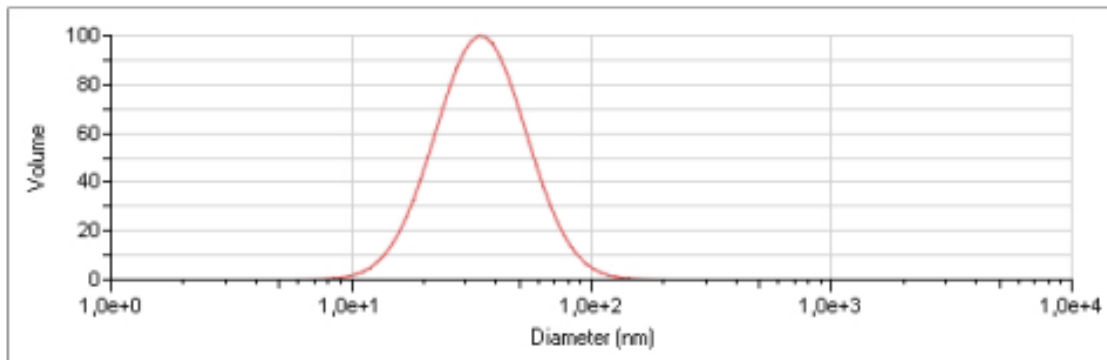
Operating Conditions

Temperature: 18 °C – 35 °C (64°F - 95° F)

Humidity: 20 – 60 %

Ink Volume

Custom volume upon client request.



Particle size average distribution

Notes

This MICR INKJET is produced according with a certified ISO 9001:2015 Quality Management System and NANUM warrants all reported specifications. However, satisfactory results from the ink use are related to individual formulation and operational procedures. Users are responsible for testing and to determine if our product will perform as expected throughout the entire printing, post printing, processing, and end-of-life.

* Magnetic signal strength is dependent of many printing parameters, such as drop size, resolution, substrate, and operating conditions.

