TECHNICAL DATA SHEET

Nanum® Monomer Magnetic Nanoparticles Dispersion



NA071902

Description

Nanum® monomer magnetic nanoparticles dispersion is a monomer-based dispersion produced with our special metal oxide nanoparticles. It features prolonged stability, extended shelf life and low sedimentation rate due to its functionalized nanoparticles, which is treated with strong chemical bonds.

Application

NA071902 is a dispersion for application in UV curable magnetic ink formulations, with excellent magnetic signal. It can be used to produce inks for printing banknotes and other documents with paper currency or similar, as well as printing on non-porous substrates.

Properties:

Product name:	Nanum Monomer Magnetic Nanoparticles Dispersion
Solvent:	Monomer
Physical form:	Black liquid
Average Particle size (nm):	60.0 - 90.0
Viscosity* (cP):	100.0 - 600.0
Solid content (% w/w):	49 – 51
Density (g/mL):	1.55 – 1.65

Shelf life

NA071902 should be stored in a cool dry place with optimal temperature range for storage between 41 °F – 86 °F (5°C – 30 °C). This product has a shelf life of 6 months from the manufacture date when stored under the mentioned conditions. Exposing the dispersion to higher or lower temperatures may cause loss of its properties and/or printing performance.



Version: 3.0/EN

Operating Conditions

Temperature: 5 °C – 30 °C (41°F - 86° F) Humidity: 20 – 60 %

Dispersion Volume

Custom volume upon client request.



Particle size average distribution

Notes

This Nanum Dispersion is produced according with a certified ISO 9001:2015 Quality Management System and NANUM warrants all reported specifications. However, satisfactory results from the dispersion 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.



* Brookfield Viscometer DV-I Prime - ULA (Frequency = 1.5 revolutions per minute (rpm))

