



# TECHNICAL DATA SHEET

## Nanum® Cerium Oxide Dispersion

### NA060900

#### Description

Nanum® Cerium Oxide Dispersion NA060900 is a solvent-based dispersion containing our functionalized cerium oxide nanoparticles. It features prolonged stability, extended shelf life and low sedimentation rate due to its functionalized nanoparticles, which strong chemical bonds. Nanoparticles are small in size, making them ideal for different applications.

#### Application

Due to the unique properties of CeO<sub>2</sub>, Nanum® Cerium Oxide Dispersion NA060900 can be used as a fuel additive for kerosene, diesel, heavy oil, gasoline, biodiesel and bio kerosene. In addition, it can also be used as an anti-corrosive pigment in solvent-based paints and, finally, it has excellent catalytic properties that will enable the production of hydrogen.



#### Properties:

Product name:	Nanum® Cerium Oxide Dispersion NA060900
Dispersion vehicle:	Aliphatic solvents
Physical form:	Orange liquid
Viscosity (cP):	4 - 6
Solids content (%):	49 – 50
CeO <sub>2</sub> content (%):	28 - 30
Average Particle Size (nm):	5 – 20
Specific gravity (g/cm <sup>3</sup> ):	1,05 – 1,20



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### Shelf life

NA060900 should be stored avoiding exposure to light in a cool, dry place with optimal temperature range for storage between 64 °F – 104 °F (18°C – 40 °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.

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### Operating Conditions

Temperature: 18 °C – 40 °C

(64°F-104°F) Humidity: 20 – 60 %

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### Ink Volume

Custom volume upon client request.

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### Notes

This CERIUM OXIDE DISPERSION 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.

