



Material Cerium oxide (CeO₂)

Charge description/ CH-000380 NanoCare Product number 3.5

Provider BASF SE

Available form Powder

Primary particle size

[d₅₀ in nm]

70 nm

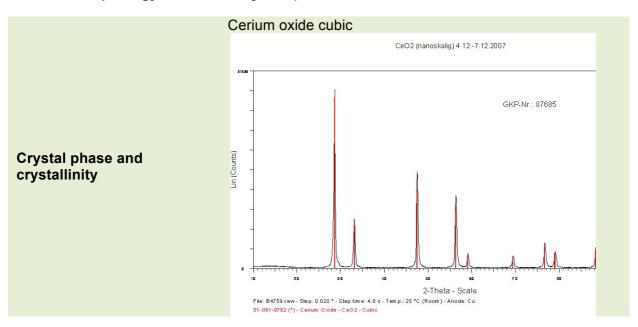
Particle size distribution 10 - 200 nm, see TEM;

D₅₀ of primary particles according to TEM and XRD at 40 nm

pH n/a (Powder)

BET Surface area 33 m²/g

Particle morphology Irregular spherical



Stabilisation no

Solubility in water

Protocol: initial concentration 10 mg/ml, 24h agitation at 900 rpm; centrifugation and analysis of supernatant

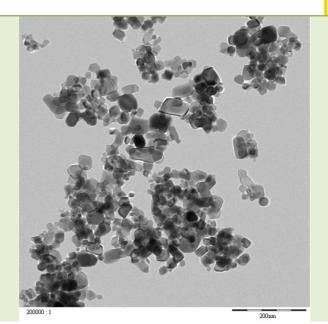
Purity/contamination

Purity 99% see XRD above

NanoCare data sheet







REM/TEM

Zeta potential

XPS-results:

impurities C and CI on the surface

Surface area chemistry O 53 %

Ce 26 % C 20 % CI 0.6 %

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