



Material

Cerium oxide (CeO₂) modification D

**Charge description/
NanoCare Product number** CH-000443
3.4

Provider Evonik Degussa

Available form Powder

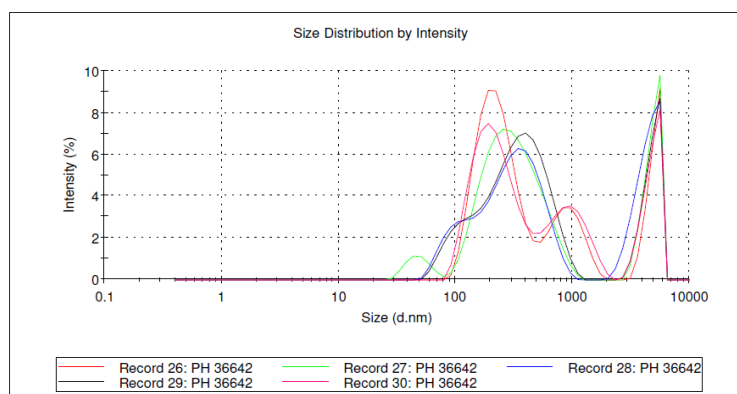
**Primary particle size
[d₅₀ in nm]** 14 nm

Particle size distribution

Results

	Diam. (nm)	% Intensity	Width (nm)
Z-Average (d.nm): 353,5	Peak 1: 223,1	52,6	90,46
PdI: 0,838	Peak 2: 921,7	25,4	347,8
Intercept: 0,785	Peak 3: 4739	21,9	766,4

Result quality Refer to quality report



pH 3.4

BET Surface area 63 m²/g

Particle morphology Aggregate

**Crystal phase and
crystallinity** Crystalline (100 % fcc)

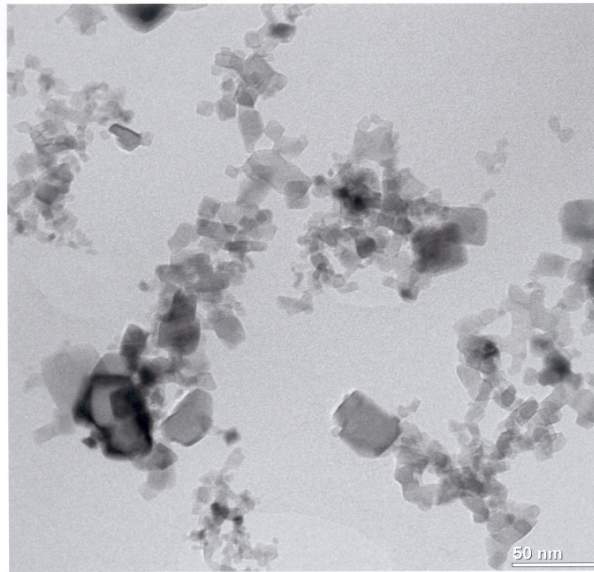
Stabilisation HNO₃

Solubility in water -

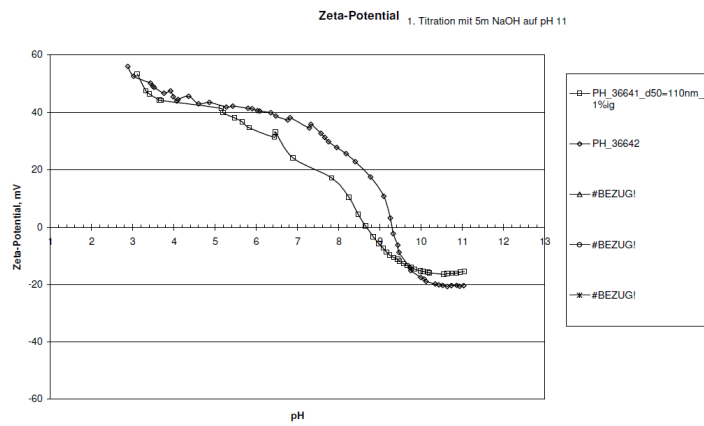
Purity/contamination > 99.97 %



REM/TEM



Zeta potential



CH 000443 = PH 36642

Surface area chemistry

O 56.0 %
Ce 22.3 %
C 21.7 %