



Material

Cerium oxide (CeO₂) modification A

**Charge description/
NanoCare Product number** CH-000440
3.1

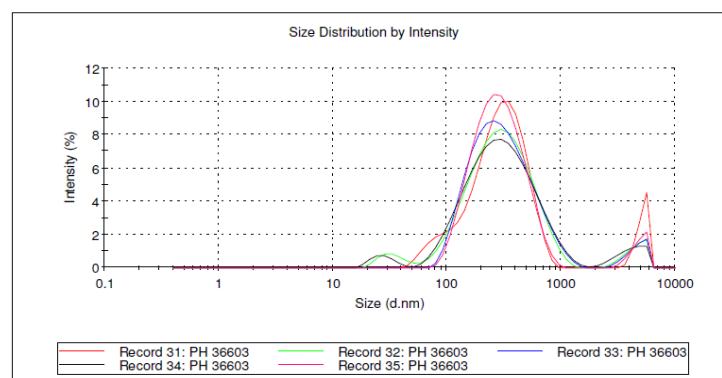
Provider Evonik Degussa

Available form Powder

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

Particle size distribution

	Diam. (nm)	% Intensity	Width (nm)
Z-Average (d.nm): 237,0	Peak 1: 305,3	94,2	150,8
Pdl: 0,423	Peak 2: 4785	5,8	732,9
Intercept: 0,856	Peak 3: 0,000	0,0	0,000
Result quality Good			



pH 6.2

BET Surface area 63 m²/g

Particle morphology Aggregate

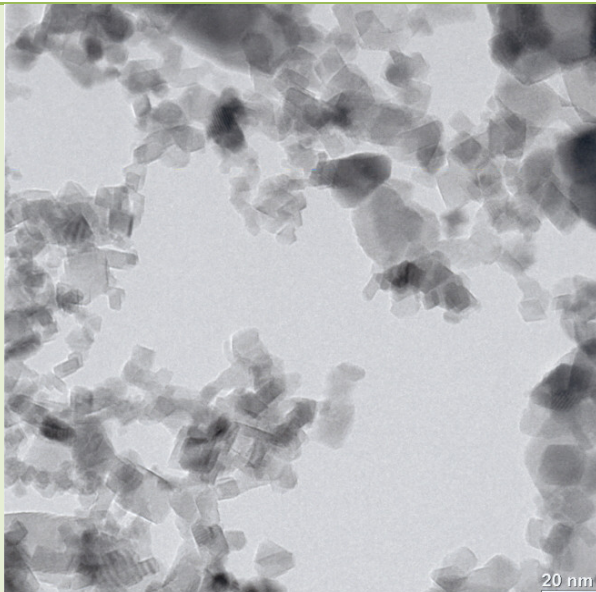
**Crystal phase and
crystallinity** Crystalline (100 % fcc)

Stabilisation HNO₃

Solubility in water -

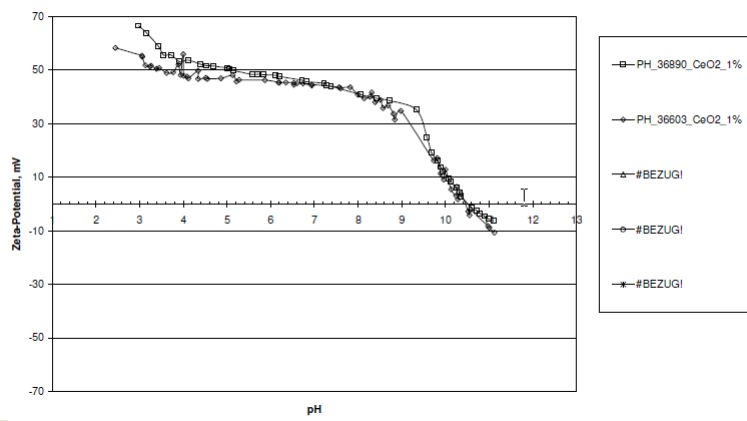
Purity/contamination > 99.97 %

REM/TEM



Zeta-Potential 1. Titration mit 5m NaOH auf pH 11

Zeta potential



Surface area chemistry

O	56.8 %
Ce	25.0 %
C	18.2 %