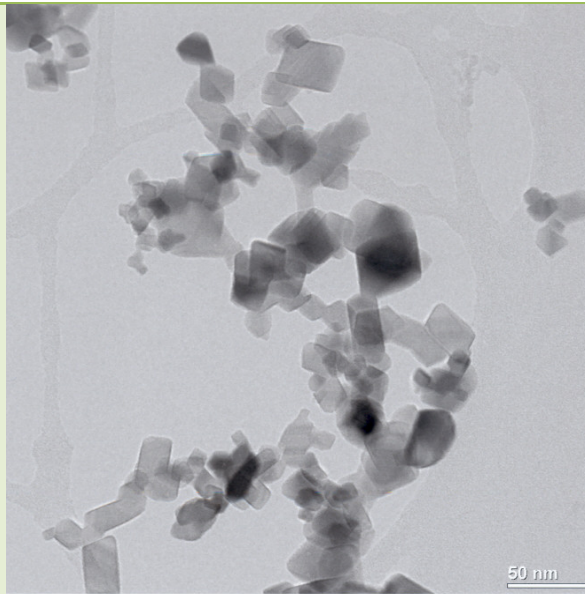


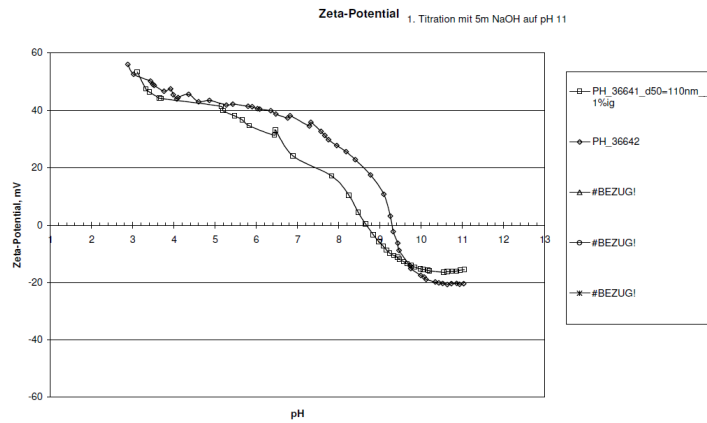


Charge description/ NanoCare Product number	CH-000442 3.3																
Provider	Evonik Degussa																
Available form	Powder																
Primary particle size [d₅₀ in nm]	23 nm																
Particle size distribution	<p>Results</p> <table border="1"> <thead> <tr> <th></th> <th>Diam. (nm)</th> <th>% Intensity</th> <th>Width (nm)</th> </tr> </thead> <tbody> <tr> <td>Z-Average (d.nm): 232,7</td> <td>Peak 1: 270,9</td> <td>75,9</td> <td>186,5</td> </tr> <tr> <td>PdI: 0,614</td> <td>Peak 2: 4605</td> <td>18,2</td> <td>834,5</td> </tr> <tr> <td>Intercept: 0,776</td> <td>Peak 3: 24,66</td> <td>5,9</td> <td>5,387</td> </tr> </tbody> </table> <p>Result quality Refer to quality report</p> <p>Size Distribution by Intensity</p> <p>Intensity (%)</p> <p>Size (d.nm)</p> <p>Record 21: PH 36641 Record 22: PH 36641 Record 23: PH 36641 Record 24: PH 36641 Record 25: PH 36641</p>		Diam. (nm)	% Intensity	Width (nm)	Z-Average (d.nm): 232,7	Peak 1: 270,9	75,9	186,5	PdI: 0,614	Peak 2: 4605	18,2	834,5	Intercept: 0,776	Peak 3: 24,66	5,9	5,387
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pH	3.4																
BET Surface area	38 m ² /g																
Particle morphology	Aggregate																
Crystal phase and crystallinity	Crystalline (100 % fcc)																
Stabilisation	HNO ₃																
Solubility in water	-																
Purity/contamination	> 99.97 %																

REM/TEM



Zeta potential



CH 000442 = PH 36641

Surface area chemistry

O 56.5 %
Ce 22.1 %
C 21.5 %