

sample	chemical composition, crystallinity	mean primary particle size, morphology	surface area [m ² /g]	surface chemistry [At%]	organic modification	pH [#]
BaSO ₄	56,5 % Ba 38.6 % SO ₄ orthorhombic	38 nm irregular but globular	41,4	Ba 13 S 11 O 52 C 17	yes	8.6
AlOOH	82.7 % AlOOH; impurities: C, Na, Fe, Si, Li, B	40 nm, irregular but spherical	47	O 62 Al 32 C 7	none	4.3
TiO ₂ A	O 58 % Ti 41 % Cl > 1 % anatase 95 %, rutile 5 %	17 nm irregular but spherical	117	O 53 Ti 21 C 25 Cl 1	yes	5.4
TiO ₂ B	>99.5 % TiO ₂ rutile and anatase, tetragonal	27 nm irregular but globular	52	O 58 Ti 26 C 14 N 0.5 Cl 1	none	6.1
CeO ₂ A	> 99.97 % purity	14 nm cubic, aggregated	63	O 57 Ce 25 C 18	none	5.9
CeO ₂ B	> 99.97 % purity	20 nm, aggregated	44	O 56 Ce 22 C 22	none	6.2
CeO ₂ C	>99 % CeO ₂ Cerianite, cubic	70 nm irregular but globular	33	O 53 Ce 26 C 20 Cl 0.6	none	5.9
Carbon black	n.d.	16 nm, aggregated	340	n.d.	none	5