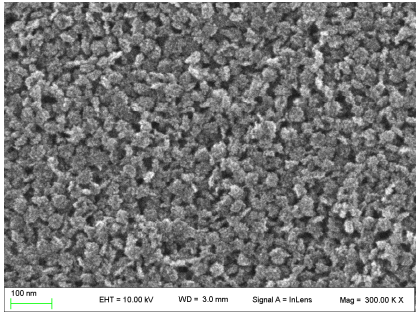
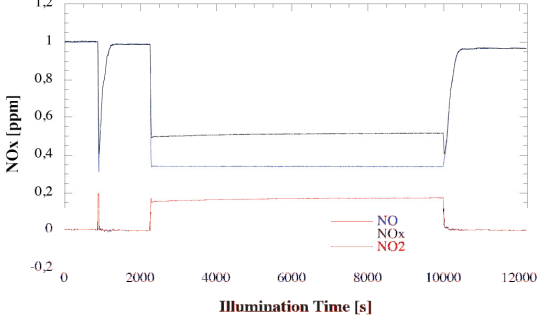




CCA 100 BS TiO₂ - Photocatalyst

CCA 100 BS is a stabilized aqueous suspension of ultrafine Titanium dioxide (TiO₂) with an excellent photocatalytical activity in presence of natural or artificial UV light. Our particle design technology is the basis for the premium product performance in a wide range of applications.

<p>Properties</p>	<p>Designed and optimized for the use as a photocatalyst:</p> <ul style="list-style-type: none"> ▪ Ultrafine TiO₂ without pigmentary properties. ▪ Highly stabilized, neutral pH, white aqueous suspension. ▪ Anatase crystal structure. ▪ Degradation of organic and inorganic molecules under UV light. ▪ Recommended for applications with a neutral or basic pH range. ▪ High photocatalytic activity 		
<p>Applications</p>	<p>Main applications are:</p> <ul style="list-style-type: none"> ▪ Outdoor applications. ▪ Photocatalyst used for self-cleaning effect on various building materials and other surfaces, textile, glass, ceramics, ... ▪ Air and water purification - degradation of NO_x, SO_x, VOC and other organic molecules. ▪ Removing unpleasant odors. ▪ Preventing mold, fungi and algae. ▪ Acting antiviral and antibacterial. 		
<p>Product characteristics (typical)</p>	<p>TiO₂ content</p>	<p>Internal method</p>	<p>20 - 22 %</p>
	<p>Density</p>	<p>Internal method</p>	<p>~ 1.2 g/cm³</p>
	<p>pH</p>	<p>Internal method</p>	<p>7 - 9</p>
	<p>Crystallite size (Scherrer)</p>	<p>Internal method</p>	<p>~ 10 nm</p>
	<p>Specific Conductivity</p>	<p>Internal method</p>	<p>< 1 mS/cm</p>
	<p>Specific surface area</p>	<p>Internal method</p>	<p>> 250 m²/g</p>
	<p>Typical photocatalytic activity</p>	<p>ISO 22197-1*</p>	<p>30.2 mg NO/m²h</p>
<p>* Measurements were performed by Institut für Technische Chemie (Hannover, Germany). A value more than 5.0 mg NO/m²h can be regarded as a very good degradation efficiency</p>			
<p>SEM image & Performance chart</p>	<div style="display: flex; justify-content: space-around;"> <div data-bbox="496 1350 914 1664">  <p>SEM image of the CCA 100 BS</p> </div> <div data-bbox="938 1350 1481 1664">  <p>NO degradation rate (ISO 22197-1): 30,2 mg NO/m²h*</p> </div> </div>		
<p>Packaging & Handling</p>	<ul style="list-style-type: none"> ▪ Available in 50 L (60 kg) or 150 L (170 kg) plastic drums. ▪ Handling in accordance with the CCA 100 BS Safety Data Sheet. ▪ Shelf life: 4 years from the date of production. ▪ When stored, avoid freezing and overheating. ▪ Be sure to mix before use (after mixing viscosity will be lower). 		

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