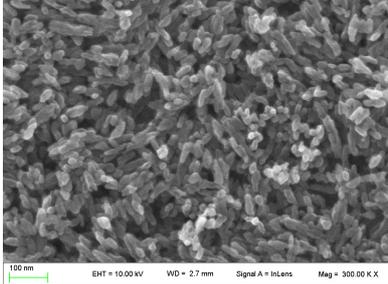
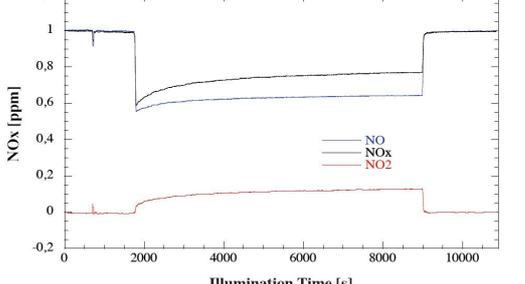




CCR 200 N TiO₂ - Photocatalyst

CCR 200 N is a stabilized aqueous suspension of ultrafine Titanium dioxide (TiO₂) with an excellent photocatalytic activity in presence of natural or artificial UV and visible 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. ▪ Rutile crystal structure. ▪ Degradation of organic and inorganic molecules under UV and visible light. ▪ Recommended for applications with a neutral or basic pH range. ▪ Cristal lattice doped with N. ▪ High photocatalytic activity. 						
<p>Applications</p>	<p>Main applications are:</p> <ul style="list-style-type: none"> ▪ Indoor and outdoor applications on various building materials and other surfaces, textile, glass, ceramics, ... ▪ Photocatalyst used for self-cleaning effect ▪ Air and water purification - degradation of NO_x, SO_x, VOC and other organic molecules. ▪ Removing unpleasant odors and 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>6 - 8</p>				
	<p>Crystallite size (Scherrer)</p>	<p>Internal method</p>	<p>~ 30 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>> 60 m²/g</p>				
	<p>Typical photocatalytic activity</p>	<p>ISO 22197-1*</p>	<table border="1"> <tr> <td data-bbox="968 1240 1193 1276">Under UV light</td> <td data-bbox="1198 1240 1490 1276">22.4 mg NO/m²h</td> </tr> <tr> <td data-bbox="968 1283 1193 1339">Under visible light</td> <td data-bbox="1198 1283 1490 1339">17.2 mg NO/m²h</td> </tr> </table>	Under UV light	22.4 mg NO/m ² h	Under visible light	17.2 mg NO/m ² h
Under UV light	22.4 mg NO/m ² h						
Under visible light	17.2 mg NO/m ² h						
<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>	 <p>SEM image of the CCR 200 N</p>	 <p>NO degradation rate (ISO 22197-1): 17.2 mg NO/m²h (visible light); 22.4 mg NO/m²h (UV) *</p>					
<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 CCR 200 N 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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