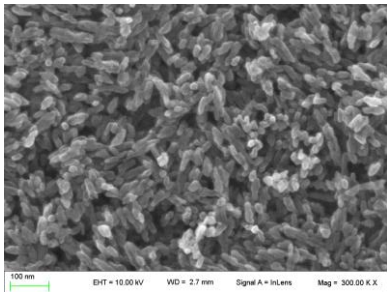
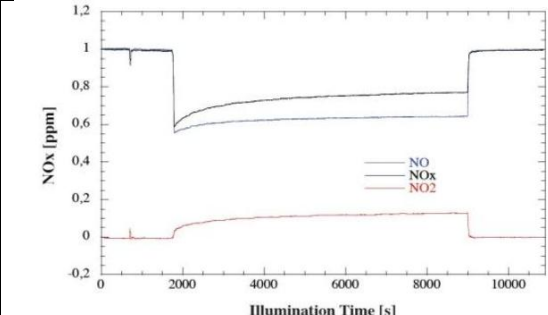


CCR 200 N

TiO₂ - Photocatalyst

CCR 200 N is a stabilized aqueous suspension of ultrafine Titanium dioxide (TiO₂) with an excellent photocatalytical 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.

Properties	Designed and optimized for the use as a photocatalyst: ▪ 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.			
Applications	Main applications are: ▪ 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.			
Product characteristics (typical)	TiO ₂ content	Internal method		20 - 22 %
	Density	Internal method		~ 1.2 g/cm ³
	pH	Internal method		6 - 8
	Crystallite size (Scherrer)	Internal method		~ 30 nm
	Specific Conductivity	Internal method		< 1 mS/cm
	Specific surface area	Internal method		> 60 m ² /g
	Typical photocatalytic activity	ISO 22197-1*	Under UV light	22.4 mg NO/m ² h
Under visible light			17.2 mg NO/m ² h	
* Measurements were performed by Institut für Technische Chemie (Hannover, Germany). A value more than 5.0 mg NO/m ² h can be regarded as a very good degradation efficiency				
SEM image & Performance chart				
SEM image of the CCR 200 N		NO degradation rate (ISO 22197-1): 17.2 mg NO/m²h (visible light); 22.4 mg NO/m²h (UV) *		

Technical Data Sheet

Packaging & Handling	▪ 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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