## KRONOS



## KRONOClean® 7050

KRONOS INFORMATION 22

TiO<sub>2</sub>-photocatalyst

degrades pollutants with UV radiation

products in order to enable their most effective use.

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Applications	<b>KRONO</b> <i>Clean</i> <b>7050</b> is optimised for photoactivity in UV radiation and can be used:				
	to eliminate unwanted odours (e.g. automotive exhaust gases) and degrade dirt on surfaces (e.g. soot) for air purification (nitrogen oxides, sulphoxides, chlorinated hydrocarbons, and similar) for air deodorisation (exterior paints) in plastic films, window profiles, paints, concrete, etc.				
			Properties	KRONOClean 7050	
				<ul> <li>is an ultra-fine TiO<sub>2</sub> with no pigmentary properties</li> </ul>	
				<ul> <li>catalyses the degradation of organic and inorganic molecules when irradiated with UV radiation</li> </ul>	
<ul> <li>is a white powder and has virtually no colouring properties in the quantities generally required</li> </ul>					
<ul> <li>is resistant towards air, moderate temperatures and pH values between 3 and 11</li> </ul>					
<ul> <li>suppresses the formation of NO<sub>2</sub> (more than 70%) compared to conventional TiO<sub>2</sub>-catalysts</li> </ul>					
Product Characteristics (typical)	TiO <sub>2</sub> -Content (ISO 591)	> 85.0 °			
	Crystal modification	anatas			
	Density (ISO 787, Part 10)	3.9 g/cm			
	Crystallite size	approx. 15 ni			
	Specific surface area (BET)	> 225 m²/			
	Bulk density	300 g			
	Oil absorption <sup>1</sup>	~ 61 g/100			
	Water demand <sup>1</sup>	~ 280 g/100			
	Max. processing temperatur	e 500 °			
	Application pH-range	3 – 1			
	Typical photocatalytic activit	y (ISO 22197, Part 1)			
		Degradation [mmol/(h•m <sup>2</sup> )] NC			
		UV(A) radiation <sup>2</sup> 33. Visible light <sup>3</sup> 1			
KRONOClean <sup>®</sup> inside	Methods of determination: <sup>1</sup> internal standard method <sup>2</sup> Irradiance = 10 W/m <sup>2</sup> <sup>3</sup> Irradiance = 1700 lux; Part of UV(A)	radiation <11 mW/m²			
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