

Particle Size (microns, by volume) 3M QCM 193.0					
Product	Distribution			Effective Top Size	
	10th%	50th%	90th%		
K Series	K1	30	65	115	120
	K15	30	60	105	115
	K20	30	60	90	105
	K25	25	55	90	105
	K37	20	45	80	85
	K46	15	40	70	80
S Series	S15	25	55	90	95
	S22	20	35	65	75
	S32	20	40	70	80
	S35	20	40	65	80
	S38	15	40	75	85
	S38HS	19	44	70	85
S Series	S60	15	30	55	65
	S60HS	12	29	48	60
IM Series	IM16K	12	20	30	40
	IM30K	8.6	15.3	23.6	26.7

FIGURE 1

TiO ₂ -Content (ISO 591)	> 87.5 %
Crystal modification	anatase
Density (ISO 787, Part 10)	3.9 g/cm ³
Crystallite size	approx. 15 nm
Specific surface area (BET)	> 225 m ² /g
Bulk density	350 g/l
Oil absorption ¹	~ 67 g/100 g
Water demand ¹	~ 210 g/100 g
Max. processing temperature	200 °C
Application pH-range	4 – 9
Typical photocatalytic activity (ISO 22197, Part 1)	
	Degradation [mmol/(h•m ²)]
	NO _x
	UV(A) radiation ²
	Visible light ³
	57.8
	19.2

Methods of determination:

¹ internal standard method

² Irradiance = 10 W/m²

³ Irradiance = 1700 lux; Part of UV(A) radiation <11 mW/m²

FIGURE 2