



BAIKOWSKI

BAIKALOX

REGULAR – GENERAL DATA SHEET

Standard

Product Code	GE1	GE6	GE15	GE30	A85	A125
BET Specific Surface Area (m ² /g)	<3	6	14	25	87	103
Alpha Crystallite Size / XRD (nm)	55	50	45	40	40	-
Ultimate Particle Size / TEM (nm)	600	400	350	300	20	20
Agglomerate Size d20 (µm)	5	4	3.5	3	3	2.5
Distribution / d50 (µm)	10	10	10	10	5	6
Sedigraph d90 (µm)	20	19	17	17	14	10
Total Pore Volume (ml/g)	1.7	1.55	1.9	2.3	3.6	4
Mesopore Volume (ml/g)	0.24	0.31	0.41	0.56	1	1
Mesopore Diameter (µm)	0.24	0.19	1.17	0.15-0.02	0.02	0.02
Bulk density	0.45	0.4	0.35	0.3	0.2	0.2
Tap density	0.75	0.7	0.65	0.55	0.3	0.3
Purity / ICP (%)	>99.99	>99.99	>99.99	>99.99	>99.99	>99.99
Crystal Structure (% Alpha)	100	100	90	80	10	0

Deagglomerated

Product Code	SM8	CR1	CR6	CR10	CR15	CR30F	CR85	CR125
BET Specific Surface Area (m ² /g)	10	3	6	8	15	26	89	105
Alpha Crystallite Size / XRD (nm)	50	55	50	45	45	40	40	-
Ultimate particle Size (nm)	400	600	400	350	350	300	20	20
Agglomerate Size d20 (µm)	0.2	0.7	0.35	0.25	0.2	0.2	0.1	0.1
Distribution / d50 (µm)	0.3	1.1	0.6	0.45	0.4	0.4	0.3	0.3
Sedigraph d90 (µm)	0.7	2.5	1.4	1.25	1	1.6	0.8	0.7
Total Pore Volume (ml/g)	1.4	1	1.3	1.4	1.7	2.3	4	4.6
Mesopore volume (ml/g)	0.65	0.35	0.43	0.46	0.52	0.6	0.78	0.82
Mesopore Diameter (µm)	0.1	0.4	0.27	0.23	0.18	0.14	0.03	0.02
Bulk density	0.8	0.6	0.6	0.5	0.45	0.3	0.2	0.1
Tap density	1.1	0.95	0.8	0.7	0.6	0.45	0.25	0.15
Purity / ICP (%)	>99.99	>99.99	>99.99	>99.99	>99.99	>99.99	>99.99	>99.99
Crystal Structure (% Alpha)	100	100	100	95	90	80	10	0

All powders are available in ready-to-use and permanent suspensions for polishing applications

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