

Spherical Alumina Powder (Conventional Type)

Item		Unit	SSAC-1	SSAC-2	SSAC-5	SSAC-10	SSAC-15	SSAC-20	SSAC-30	SSAC-40	SSAC-70	SSAC-90	SSAC-120	SSAC-150	SSAC-200	SSAC-40RP
Particle Size	D10	μm	0.58	0.69	2.54	4.18	7.03	10.5	16.88	23.77	44.32	55.23	90.95	110.6	146.3	22.02
	D50	μm	1.03	2.18	5.52	10.03	15.11	20.8	30.52	41.54	71.54	87.96	122.4	154.3	191.5	41.38
	D90	μm	2.14	5.24	9.09	18.46	24.06	37.24	48.87	66.44	106.5	134.9	172.7	232.7	287.7	67.86
Specific Surface Area		m ² /g	1.69	1.27	0.36	0.17	0.14	0.11	0.1	0.07	0.05	0.06	0.06	0.03	0.03	0.06
Electric		μS/cm	6.07	5.4	5.65	4.05	1.83	6.87	7.95	4.65	6.18	8.15	2.6	4.5	5.2	12.78
pH Value		-	7.53	7.79	7.7	7.41	7.37	7.62	7.39	7.31	7.42	7.3	7.44	7.2	7.9	7.89
Moisture		%	0.05	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
True Density		g/cm ³	3.71	3.71	3.74	3.76	3.86	3.79	3.75	3.81	3.87	3.88	3.81	3.78	3.8	3.82
Spheroidization rate		%	96	98	98	98	96	96	98	96	96	95	96	95	95	95
Chemical Composition	Al ₂ O ₃	%	99.93	99.94	99.93	99.94	99.93	99.94	99.94	99.94	99.94	99.94	99.94	99.93	99.94	99.97
	SiO ₂	ppm	445	373	424	358	430	353	333	349	342	330	359	340	370	225
	Fe ₂ O ₃	ppm	152	120	176	136	158	144	161	148	158	164	133	150	140	35
	Na ₂ O	ppm	103	107	100	106	112	104	106	103	100	106	108	110	90	30

Spherical Alumina Powder (Narrow Particle Size Distribution)

Item		Unit	SSAC-5-25C	SSAC-10-35C	SSAC-15-45C	SSAC-30-75C	SSAC-40-75C	SSAC-70-120C
Particle Size	D10	μm	1.92	4.08	9.73	18.32	23.35	49.9
	D50	μm	5.07	8.61	15.51	32.1	40.78	75.34
	D90	μm	8.89	15.48	22.85	63.12	65.18	109.3
Specific Surface Area		m ² /g	0.38	0.22	0.12	0.09	0.09	0.06
Electric Conductivity		μS/cm	2.64	5.81	3.77	3.77	4.68	5.31
pH Value		-	6.79	7.33	6.8	7.05	6.82	6.97
Moisture		%	0.03	0.02	0.03	0.03	0.03	0.02
True Density		g/cm ³	3.7	3.82	3.78	3.8	3.79	3.79
Spheroidization rate		%	96	96	97	96	96	95
Chemical Composition	Al ₂ O ₃	%	99.93	99.93	99.94	99.94	99.94	99.95
	SiO ₂	ppm	430	450	370	340	340	250
	Fe ₂ O ₃	ppm	180	140	140	150	150	160
	Na ₂ O	ppm	90	110	90	110	110	90
Sieved Particles		ppm	+325 Mesh (45μm) ≤100 +500 Mesh (25μm) ≤4000	+400 Mesh (38μm) ≤100 +500 Mesh (25μm) ≤1000	+270 Mesh (53μm) ≤200 +325 Mesh (45μm) ≤3000	+150 Mesh (100μm) ≤100 +200 Mesh (75μm) ≤3000	+120 Mesh (124μm) ≤300 +150 Mesh (100μm) ≤3000	+120 Mesh (124μm) ≤100 +130 Mesh (110μm) ≤3000



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Spherical Alumina Powder (Mixed)

Item		Unit	SSAM-5M5	SSAM-10M6
Particle Size	D10	μm	1.5	1.49
	D50	μm	5.73	8.91
	D90	μm	11.08	17.88
Specific Surface Area		m^2/g	0.36	0.26
Electric Conductivity		$\mu\text{S}/\text{cm}$	4.23	3.74
pH Value		-	7.58	7.59
Moisture		%	0.03	0.03
True Density		g/cm^3	3.76	3.8
Spheroidization rate		%	96	96
Chemical Composition	Al_2O_3	%	99.93	99.94
	SiO_2	ppm	415	333
	Fe_2O_3	ppm	174	163
	Na_2O	ppm	111	104

Spherical Alumina Powder (High Thermally Conductive)

Item		Unit	SSAHTC-5	SSAHTC-40	SSAHTC-70	SSAHTC-90	SSAHTC-120
Particle Size	D10	μm	4.82	25.23	46.6	58.28	90.63
	D50	μm	7.68	42.44	71.61	87.79	119.95
	D90	μm	11.99	64.73	106.28	131.34	168.95
Specific Surface Area		m^2/g	0.25	0.06	0.04	0.03	0.02
Electric Conductivity		$\mu\text{S}/\text{cm}$	2.94	3.32	3.11	3.3	3.9
pH Value		-	7.14	7.62	7.24	7.57	7.44
Moisture		%	0.03	0.03	0.02	0.03	0.03
True Density		g/cm^3	3.78	3.83	3.87	3.91	3.92
Spheroidization rate		%	96	98	96	95	95
Chemical Composition	Al_2O_3	%	99.93	99.97	99.96	99.95	99.95
	SiO_2	ppm	430	100	150	257	277
	Fe_2O_3	ppm	180	90	160	148	130
	Na_2O	ppm	90	110	90	95	93



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