



CERALOX[®] ALUMINAS CERAMIC APPLICATIONS

Typical CHEMICAL ANALYSIS

Product	Al ₂ O ₃ Purity*	Primary Impurities, ppm											
		Na	Si	Fe	Ca	Mg	Ga	Cr	Ni	Ti	Cu	Zn	Zr
SPA-0.5	99.995%	10	10	5	5	2	<4	<1	<1	<1	<1	<1	3
AHPA-0.5**	+99.99%	4	20	12	5	5	<4	<1	<1	10	<1	<1	2
APA-0.5**	99.96%	10	95	110	10	30	15	10	5	30	<1	45	3

SPA, AHPA and APA ceramic powder available with or without MgO (500ppm) dopant

** Available in spray dried, ready to press form

Typical PHYSICAL PROPERTIES

Product	D-90 μm	D-50 μm	D-10 μm	Surface Area, m ² /g	Green Density, g/cc	Fired Density, g/cc	
						with MgO	without MgO
SPA-0.5	0.8	0.4	0.2	8	2.20	3.96	3.94
AHPA-0.5	0.4	0.3	0.2	8	2.22	3.96	3.94
APA-0.5	0.5	0.3	0.2	8	2.22	3.96	3.94

METHODOLOGY

Chemical Analysis:	Inductively Coupled Argon Plasma
Particle Size Distribution:	Laser Diffraction
Surface Area:	B.E.T.
Green/fired Density:	Alumina Ceramic Manufacturing ACMA Test 6 and ASTM C-373-72. Green density values are determined on a 10 gm pellet, pressed at 5000 psi (34.47 Mpa) in a 1" floating head die. Fired density values are determined from a pellet sintered at 1510°C for 2 hours.