

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
HPA-0.5	+99.99%	20	20	10	8	3	<4	<1	<1	<1	<1	<1	3
HPA-0.5AF	+99.99%	20	20	10	8	3	<4	<1	<1	<1	<1	<1	3
APA-0.5**	99.96%	10	95	110	10	30	15	10	5	30	<1	45	3

*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	8.0	2.21	3.96	3.94
HPA-0.5	1.2	0.4	0.2	9.0	2.19	3.96	3.94
HPA-0.5AF	1.0	0.4	0.2	9.0	2.05	3.92	3.90
APA-0.5	0.5	0.3	0.2	8.0	2.24	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.