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CERALOX[®]

SPRAY DRIED CERAMIC ALUMINAS

Typical CHEMICAL ANALYSIS

Alumina Powder	Al ₂ O ₃ Purity	Primary Impurities, ppm										
		Na	Si	Fe	Ca	Mg*	Ga	Cr	Ni	Ti	Zn	Zr
SPA-RTP SB	>99.99%	15	15	5	5	300	<4	<1	<1	<1	<1	3
APA-RTP SB	99.94%	10	105	110	10	300	40	10	5	30	45	3

*Mg level obtained from the addition of high purity magnesium aluminate spinel

Typical PHYSICAL PROPERTIES

Physical Properties	SPA-RTP SB	APA-RTP SB
Major Binder Component	Acrylic	Acrylic
Loss on Ignition:		
105° C	0.3 wt. %	0.3 wt. %
550° C	3.0 wt. %	3.0 wt. %
1100° C	3.0 wt. %	3.0 wt. %
Primary Grain Size	0.4 micron	0.3 micron
Spray Dried Particle Size	55 micron	55 micron
Bulk Density	1.15g/cc	1.15g/cc
Green Density, 15,000 psi (103.4MPa)	2.32g/cc	2.35g/cc
Fired Density, 15,000 psi (103.4MPa)	3.95g/cc	3.95 g/cc
Ceramic Color	White	Light Pink

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 15000 psi (*103.4 MPa) in a 1" floating head die. Fired density values are determined from a pellet sintered at 1510°C for 2 hours.
 Other Density: Hosokawa Powder Analyser®