



# CERALOX<sup>®</sup> ALUMINAS FLUORESCENT LAMP COATINGS

## Typical CHEMICAL ANALYSIS

| Product      | Al <sub>2</sub> O <sub>3</sub><br>Purity | Primary<br>Impurities, ppm |    |     |    |    |    |    |    |    |
|--------------|------------------------------------------|----------------------------|----|-----|----|----|----|----|----|----|
|              |                                          | Na                         | Si | Fe  | Ca | Mg | Ti | Cr | Ni | Zr |
| SPA-Gamma AF | 99.997%                                  | 10                         | 7  | 5   | 2  | 2  | <1 | <1 | <1 | 2  |
| SPA-0.5AF    | 99.995%                                  | 15                         | 15 | 10  | 5  | 3  | <1 | <1 | <1 | 5  |
| SPA-Alpha AF | 99.997%                                  | 10                         | 15 | 10  | 5  | 3  | <1 | <1 | <1 | 5  |
| APA-100RDX   | 99.96%                                   | 10                         | 95 | 110 | 10 | 30 | 30 | 10 | 5  | 3  |
| APA-0.2      | 99.96%                                   | 10                         | 95 | 110 | 10 | 30 | 30 | 10 | 5  | 3  |
| APA-0.4      | 99.96%                                   | 10                         | 95 | 110 | 10 | 30 | 30 | 10 | 5  | 3  |

\*AF Agglomerate Free powders are easily dispersed in low shear aqueous processes.

## Typical PHYSICAL PROPERTIES

| Product      | Median Particle<br>Diameter, $\mu\text{m}$ | Surface Area<br>$\text{m}^2/\text{g}$ | Loose Bulk<br>Density, g/l |
|--------------|--------------------------------------------|---------------------------------------|----------------------------|
| SPA-Gamma AF | 2.5                                        | 60                                    | 200                        |
| SPA-0.5AF    | 0.4                                        | 7.5                                   | 750                        |
| SPA-Alpha AF | 1.3                                        | 6.0                                   | 350                        |
| APA-100RDX   | 2.4                                        | 87                                    | 170                        |
| APA-0.2      | 2.0                                        | 40                                    | 200                        |
| APA-0.4      | 0.3                                        | 8.0                                   | 1050                       |

## METHODOLOGY

Chemical Analysis: Inductively Coupled Argon Plasma  
Particle Size Distribution: Laser Diffraction  
Surface Area: B.E.T.  
Density: Hosokawa Powder Analyzer<sup>®</sup>