

## BROWN ALUMINUM OXIDE POWDERS FOR COATED ABRASIVES

### 1 DESCRIPTION

TPP-treated to enhance projectability for coated applications; medium- density, long-wearing, hard, and tough abrasive with minimum wear characteristics; 9.0 on the Mohs scale and 2,090 on the Knoop scale.

### 2 APPLICATIONS

These specially-shaped and treated grains are designed specifically for coated abrasives manufacturing and can be applied to paper, fabric, or polyester films. The TPP treatment improves the projectability of the grain; stabilizes and extends the projection capacity; achieves a homogeneous distribution and grain orientation; acts as a coupling agent bridging the interface between the grain and the organic adhesive, thus diminishing the removal of the grain from the backing. Overall, TPP enhances the quality of the

### 3 TYPICAL CHEMISTRY

Al <sub>2</sub> O <sub>3</sub>	94.91%
TiO <sub>2</sub>	3.97%
SiO <sub>2</sub>	0.40%
Fe <sub>2</sub> O <sub>3</sub>	0.10%
ZrO <sub>2</sub>	0.28%

### 4 PHYSICAL PROPERTIES

Crystalline Structure	Alpha
Knoop Hardness	2,090
Mohs Hardness	9.0
Density	3.92 gr/cm <sup>3</sup>
Particle Form	Blocky Shape

### 5 SPECIFICATIONS / NORMS

Grit Size

ANSI B74.18.2006

FEPA 43-2:2006

Density:

FEPA 44-2:2006

ANSI B74.4 Rev 2007



### 6 SIZES & DENSITIES

FEPA	BULK DENSITY FEPA TYPICAL	ANSI	BULK DENSITY ANSI TYPICAL
P-240	1.52 - 1.78	G-240	1.67
P-280	1.55 - 1.71	G-280	1.62
P-320	1.48 - 1.76	G-320	1.88
P-360	1.47 - 1.74	G-360	1.70
P-400	1.50 - 1.69	G-400	1.67
P-500	1.51 - 1.61	G-500	1.82
P-600	1.53 - 1.64	G-600	
P-800	1.53 - 1.64		
P-1000	1.53 - 1.64		
P-1200			
P-1500			
P-2000			

### 7 PACKAGING

25 kg paper bags, 907.20 kgs and 1,000 kgs super sacks on wood pallets with stretchable plastic.