

# FUSED WHITE ALUMINUM OXIDE (AL2O3)

White Fused Aluminum Oxide is a high purity fused aluminum oxide. It achieves its white color as it is lower in impurities than brown or pink fused aluminum oxide. It typically has higher friability than brown fused aluminum oxide. With a Mohs hardness of 9, Aluminum Oxide is a high strength, wear-resistant material possessing a strong ability to resist vigorous chemical attacks (such as acid and alkali) at extreme temperatures. Its high degree of refractoriness, along with its superior electrical insulating properties, dielectric properties, and high melting point make White Fused Aluminum Oxide a desirable material choice for a diverse range of applications.

Panadyne offers a full range of aluminas to meet your application. Our Aluminum Oxide is offered in standard FEPA grading or custom sizing. The white fused aluminum oxide is available in acid washed, non-acid washed, and microdermabrasion grade.



# TYPICAL APPLICATIONS

| Refractories           | Polishing         | Coatings   |
|------------------------|-------------------|------------|
| Body and Vehicle Armor | Lapping           | Filtration |
| Blasting Media         | Metal Preparation | Abrasives  |
| Microdermabrasion      | Anti-Slip         | Refractory |
| Grinding               | Laminates         | Milling    |

## TYPICAL PROPERTIES

| High Hardness                             |  |  |
|---|--|--|
| High Compression Strength                 |  |  |
| Abrasion/ Wear-Resistance                 |  |  |
| Abrasives                                 |  |  |
| Chemical Inertness                        |  |  |
| High Degree of Refractoriness             |  |  |
| Superior Electrical Insulating Properties |  |  |
| Dielectric Properties                     |  |  |
| High Melting Point                        |  |  |



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## FUSED WHITE ALUMINUM OXIDE (AL2O3)

#### Sizes

White Aluminum Oxide is graded to ANSI Standards Table 2 or FEPA sized. The following Grit are available:

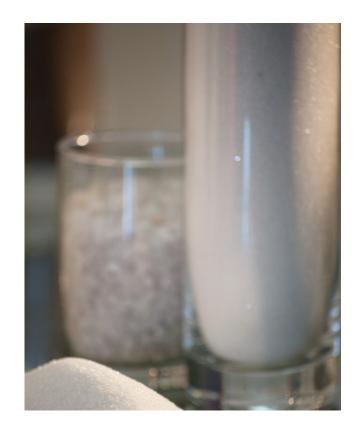
#### Macro grades

ANSI or FEPA F 8, 10, 12, 14, 16, 20, 24, 30, 36, 46, 54, 60, 70, 80, 90, 100, 120, 150, 180, 220, 240.

### Micro grades

FEPA sized 280,320,360,400,500,600,800,1000,1200.

| TYPICAL ANALYSIS            |  |
|-----------------------------|--|
| AIO <sub>3</sub>            | 99.5%  |
| TiO <sub>2</sub>            | 0.0995%  |
| SiO <sub>2</sub> (not free) | 0.05%  |
| Fe <sub>2</sub>             | 0.08%  |
| MgO                         | 0.02%  |
| Alkali (Soda & Potash)      | 0.30%  |
| Crystal Form                | Rhombohedral Class                                     |
| Chemical Nature             | Amphoteric   |
| Specific Gravity            | 3.95 grm/cc  |
| Bulk Density                | 116 lbs/ ft3   |
| Hardness                    | KNOPPS = 2000, MOHS = 9                                |
| Melting Point               | 2,000°C  |
| Reaction with Acids         | Subject to mild attack by aqua regia and/or Hydrofluic |





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