

## **Certificate of Analysis- Abrasives White Fused Alumina**

### **General Information**

|                          |   |
|--------------------------|---|
| Product                  | : White Fused Alumina   |
| Apply to                 | : Abrasive Tools, Sandblasting, Polishing, Surface Preparation      |
| Other Names              | : White Fused Aluminium Oxide, White Aluminum Oxide, White Corundum |
| Country of Origin        | : China   |
| Manufacturer of Material | : Komeno(Beijing)International Trading Co.,Ltd.                     |
| Features                 | : Hard Dense Material, Abrasive Ability, Pure, Little Dust          |

Picture of Product:



### **Physical Specifications & Package**

|                                 |   |
|---------------------------------|---|
| Main Content                    | : $\alpha$ -Al <sub>2</sub> O <sub>3</sub>              |
| Specific Gravity                | : $\cong$ 3.60 g /cm <sup>3</sup>                       |
| Bulk Density                    | : 1.5-2 kg / m <sup>3</sup>                             |
| Hardness                        | : 9 MOSH  |
| Color                           | : White   |
| Melting Point                   | : 2350°C  |
| Coefficient of Linear Expansion | : (7 - 9)*10 <sup>-6</sup> /K (0 - 1600 °C)             |
| Sizes Available                 | : F8-F220, F280-F2000, other sizes available to request |
| Package                         | : Jumbo Bag, 25kg Bag and 40 Bags on a Pallet           |

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## Particle Distribution & Chemical Content

### White Fused Alumina for Bonded Abrasives and Sandblasting

|                   |             |          |               |               |                 |                                |                                |        |
|-------------------|-------------|----------|---------------|---------------|-----------------|--------------------------------|--------------------------------|--------|
| Physical Analysis | Grit#       | Max Size | Big Size      | Basic Size    | Mixed Size      | Small Size                     | Chemical Analysis              |        |
|                   | <b>F24</b>  | +1.18    | +0.85         | +0.71         | +0.60           | -0.50                          | AL <sub>2</sub> O <sub>3</sub> | 99.53% |
|                   | Standard    | 0%       | 0-25%         | 45-100%       | 65-100%         | 0-3%                           | SiO <sub>2</sub>               | 0.06%  |
|                   | Sample 1    | 0        | 18            | 61            | 80              | 0.5                            | Na <sub>2</sub> O              | 0.33%  |
|                   | Sample 2    | 0        | 17            | 62            | 80              | 0.5                            | Fe <sub>2</sub> O <sub>3</sub> | 0.03%  |
| Physical Analysis | Grit#       | Max Size | Big Size      | Basic Size    | Mixed Size      | Small Size                     | Chemical Analysis              |        |
|                   | <b>F30</b>  | +1.00    | +0.710        | +0.600        | +0.500          | -0.425                         | AL <sub>2</sub> O <sub>3</sub> | 99.42% |
|                   | Standard    | 0%       | 0-25%         | 45-100%       | 65-100%         | 0-3%                           | SiO <sub>2</sub>               | 0.05%  |
|                   | Sample 1    | 0        | 18            | 61            | 80              | 0.5                            | Na <sub>2</sub> O              | 0.32%  |
|                   | Sample 2    | 0        | 17            | 62            | 80              | 0.5                            | Fe <sub>2</sub> O <sub>3</sub> | 0.04%  |
| Physical Analysis | Grit#       | Max Size | Big Size      | Basic Size    | Mixed Size      | Small Size                     | Chemical Analysis              |        |
|                   | <b>F60</b>  | +0.425   | +0.30         | +0.25         | +0.212          | -0.18                          | AL <sub>2</sub> O <sub>3</sub> | 99.44% |
|                   | Standard    | 0%       | 0-30%         | 40-100%       | 65-100%         | 0-3%                           | SiO <sub>2</sub>               | 0.04%  |
|                   | Sample 1    | 0        | 11            | 57            | 86              | 0.5                            | Na <sub>2</sub> O              | 0.30%  |
|                   | Sample 2    | 0        | 11            | 56            | 87              | 0.5                            | Fe <sub>2</sub> O <sub>3</sub> | 0.03%  |
| Physical Analysis | Grit#       | Max Size | Big Size      | Basic Size    | Mixed Size      | Small Size                     | Chemical Analysis              |        |
|                   | <b>F120</b> | +0.180   | +0.125        | +0.106        | +0.090          | -0.063                         | AL <sub>2</sub> O <sub>3</sub> | 99.41% |
|                   | Standard    | 0%       | 0-20%         | 40-100%       | 65-100%         | 0-3%                           | SiO <sub>2</sub>               | 0.05%  |
|                   | Sample 1    | 0        | 15            | 65            | 83              | 0.5                            | Na <sub>2</sub> O              | 0.31%  |
|                   | Sample 2    | 0        | 16            | 64            | 82              | 0.5                            | Fe <sub>2</sub> O <sub>3</sub> | 0.03%  |
| Physical Analysis | <b>F320</b> | D0       | D3<br>Maximum | D50<br>Medium | D95<br>Smallest | AL <sub>2</sub> O <sub>3</sub> | 99.3%                          |        |
|                   | Standard    | 0        | 52            | 32.8±1.5      | 19              | SiO <sub>2</sub>               | 0.09%                          |        |
|                   | Sample 1    | 0        | 39            | 32.5          | 13              | Na <sub>2</sub> O              | 0.33%                          |        |
|                   | Sample 2    | 0        | 39            | 33            | 14              | Fe <sub>2</sub> O <sub>3</sub> | 0.11%                          |        |

**Other Sizes Available upon Request**