



# MINERAL POWDER

## I WOOJIN SERICITE

Woojin Sericite, established in 1998, is a specialized manufacturer of sericite as well as mineral materials for fiber/yarn, textiles, and other industries. Woojin Sericite has the best technology related to sericite such as the development of high purity refining technology of raw material, the practical use of eco-friendly heavy metal removal technology, and so on. Woojin Sericite currently offer more than 40 products made from **100% natural mineral** so a report of gem identification is available for all products. High quality is assured through **constant product development, high standard technology, and strict quality control.**

## I Main Product List



### NEPHRITE(JADE)

|                                 |  |
|---------------------------------|--|
| Trade Name                      | <b>Nephrite(Jade) Powder</b>                             |
| Chemical Name                   | $\text{CaMg}_5(\text{OH})_2(\text{Si}_4\text{O}_{11})_2$ |
| CAS No.                         | 12174-03-7   |
| Particle Size ( $\mu\text{m}$ ) | 4 - 8  |
| Moisture (%)                    | 6 Max  |
| pH                              | 5 - 10   |
| Pb ( $\mu\text{m/g}$ )          | 7 (Control Limit: 20ppm, ICP)                            |
| As ( $\mu\text{m/g}$ )          | 1 (Control Limit: 5ppm, ICP)                             |
| Asbestos                        | N/D  |



### TOURMALINE

|                                 |  |
|---------------------------------|--|
| Trade Name                      | <b>Tourmaline</b>  |
| Chemical Name                   | $\text{Al}_6\text{B}_3\text{Fe}_3\text{H}_{10}\text{NaO}_3\text{Si}_6$ |
| CAS No.                         | 1317-93-7  |
| Particle Size ( $\mu\text{m}$ ) | 2.5 - 8  |
| Moisture (%)                    | 6 Max  |
| pH                              | 5 - 10   |
| Pb ( $\mu\text{m/g}$ )          | 2 (Control Limit: 20ppm, ICP)  |
| As ( $\mu\text{m/g}$ )          | N/D (Control Limit: 5ppm, ICP)   |
| Asbestos                        | N/D  |



### SiO<sub>2</sub> (SILICON DIOXIDE)

| Trade Name                      | <b>Amethyst Powder</b>          | <b>Citrine</b>   | <b>Quartz</b>    | <b>Rose Quartz</b> |
|---------------------------------|---------------------------------|------------------|------------------|--------------------|
| Chemical Name                   | SiO <sub>2</sub>                | SiO <sub>2</sub> | SiO <sub>2</sub> | SiO <sub>2</sub>   |
| CAS No.                         | 14808-60-7                      | 14808-60-7       | 14808-60-7       | 14808-60-7         |
| Particle Size ( $\mu\text{m}$ ) | 4 - 9                           | 3 - 9.5          | 4 - 9            | 3 - 9.5            |
| Moisture (%)                    | 6 Max                           | 6 Max            | 6 Max            | 6 Max              |
| pH                              | 5 - 9                           | 5 - 10           | 5 - 9            | 5 - 10             |
| Pb ( $\mu\text{m/g}$ )          | N/D (Control Limit: 20ppm, ICP) |                  |                  |                    |
| As ( $\mu\text{m/g}$ )          | N/D (Control Limit: 3ppm, ICP)  |                  |                  |                    |
| Asbestos                        | N/D                             |                  |                  |                    |

\* For more information, please refer to Technical Data Sheet.

## Additional Product List

| NO. | GEMSTONE              | TRADE NAME              | CHEMICAL NAME  | Particle Size (μm) |
|-----|-----------------------|-------------------------|--|--------------------|
| 1   | ALEXANDRITE           | Alexandrite Powder      | BeAl <sub>2</sub> O <sub>3</sub>   | 0.5 - 8            |
| 2   | AMBER                 | Amber Powder            | C <sub>40</sub> H <sub>64</sub> O <sub>4</sub>   | 3 - 11             |
| 3   | AQUAMARINE            | Aquamarine Powder       | -  | 1.5 - 9            |
| 4   | BLACK PEARL TAHITI    | Pearl Powder            | CaCO <sub>3</sub> (CaO)  | 1 - 8              |
| 5   | CALCITE               | Calcite                 | -  | 0.1 - 4            |
| 6   | CITRINE               | Citrine                 | SiO <sub>2</sub>   | 3 - 9.5            |
| 7   | CONCH PEARL           | Pearl Powder            | CaCO <sub>3</sub> (CaO)  | 1 - 8              |
| 8   | CORAL                 | Coral Powder            | CaCO <sub>3</sub>  | 1.5 - 7            |
| 9   | DIAMOND               | Diamond Powder          | C  | 0.5 - 3.5          |
| 10  | DIAMOND BLACK         | Diamond Powder          | C  | 0.5 - 3.5          |
| 11  | DIAMOND BLUE          | Diamond Powder          | C  | 0.5 - 3.5          |
| 12  | DIAMOND RED & PINK    | Diamond Powder          | C  | 0.5 - 3.5          |
| 13  | DIAMOND YELLOW        | Diamond Powder          | C  | 0.5 - 3.5          |
| 14  | DIAMOND WHITE         | Diamond Powder          | C  | 0.5 - 3.5          |
| 15  | GARNET                | Garnet Powder           | Fe <sub>3</sub> Al <sub>2</sub> (SiO <sub>4</sub> ) <sub>3</sub>   | 1 - 8              |
| 16  | GOLD                  | Gold Powder   Gold Leaf | Au   | 325 Mesh           |
| 17  | HANADAMA PEARL        | Pearl Powder            | CaCO <sub>3</sub> (CaO)  | 1 - 8              |
| 18  | JEWEL                 | Jewel                   | C <sub>40</sub> H <sub>64</sub> O <sub>4</sub> , CaCO <sub>3</sub> , CaMg <sub>5</sub> (OH) <sub>2</sub> (Si <sub>4</sub> O <sub>11</sub> ) <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub> , Al <sub>6</sub> B <sub>3</sub> Fe <sub>3</sub> H <sub>10</sub> NaO <sub>31</sub> Si <sub>6</sub> , (BO <sub>3</sub> ) <sub>3</sub> (Si,Al,B) <sub>6</sub> O <sub>18</sub> (OH,F) <sub>4</sub> | 4 - 8              |
| 19  | MOONSTONE             | Moonstone Powder        | CaAl <sub>2</sub> Si <sub>2</sub> O <sub>8</sub> - NaAlSi <sub>3</sub> O <sub>8</sub> - KAlSi <sub>3</sub> O <sub>8</sub>  | 4 - 8              |
| 20  | OPAL                  | Opal Powder             | SiO <sub>2</sub> - nH <sub>2</sub> O   | 1.5 - 8            |
| 21  | PEARL                 | Pearl Powder            | CaCO <sub>3</sub> (CaO)  | 1 - 8              |
| 22  | PLATINUM              | Platinum Powder         | -  | 20 - 30nm          |
| 23  | QUARTZ                | Quartz                  | SiO <sub>2</sub>   | 4 - 9              |
| 24  | ROSE QUARTZ           | Rose Quartz             | SiO <sub>2</sub>   | 3 - 9.5            |
| 25  | RUBY                  | Ruby Powder             | Al <sub>2</sub> O <sub>3</sub>   | 0.5 - 8            |
| 26  | SAPPHIRE              | Sapphire Powder         | Al <sub>2</sub> O <sub>3</sub>   | 0.1 - 6.5          |
| 27  | SEAWATER PEARL(AKOYA) | Pearl Powder            | CaCO <sub>3</sub> (CaO)  | 1 - 8              |
| 28  | SOUTH PEARL           | Pearl Powder            | CaCO <sub>3</sub> (CaO)  | 1 - 8              |
| 29  | TOPAZ                 | Topaz                   | Ca Mg <sub>5</sub> (OH) <sub>2</sub> (Si <sub>4</sub> O <sub>11</sub> ) <sub>2</sub>   | 4 - 9              |
| 30  | TOPAZ BROWN           | Topaz                   | Ca Mg <sub>5</sub> (OH) <sub>2</sub> (Si <sub>4</sub> O <sub>11</sub> ) <sub>2</sub>   | 0.1 - 5            |
| 31  | TOPAZ GREEN           | Topaz                   | Ca Mg <sub>5</sub> (OH) <sub>2</sub> (Si <sub>4</sub> O <sub>11</sub> ) <sub>2</sub>   | 3 - 9              |
| 32  | TOPAZ PINK            | Topaz                   | Ca Mg <sub>5</sub> (OH) <sub>2</sub> (Si <sub>4</sub> O <sub>11</sub> ) <sub>2</sub>   | 0.2 - 5.5          |
| 33  | TOPAZ WHITE           | Topaz                   | Ca Mg <sub>5</sub> (OH) <sub>2</sub> (Si <sub>4</sub> O <sub>11</sub> ) <sub>2</sub>   | 1.5 - 6            |
| 34  | TOURMALINE            | Tourmaline              | Al <sub>6</sub> B <sub>3</sub> Fe <sub>3</sub> H <sub>10</sub> NaO <sub>31</sub> Si <sub>6</sub> (BO <sub>3</sub> ) <sub>3</sub> (Si,Al,B) <sub>6</sub> O <sub>18</sub> (OH,F) <sub>4</sub>  | 2.5 - 8            |

\* For more information, please refer to Technical Data Sheet.

## I Functional Effect

### I) Anionic Effect

- Improving autonomic nerve function and metabolism
- Antioxidant function, deodorization, and sterilization function
- Detoxification of active oxygen in the human body
- Prevention of metal corrosion and absorption of heavy metals

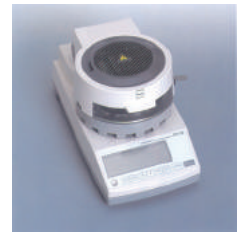
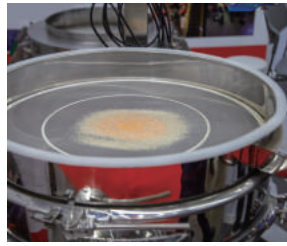
### II) Far-infrared Radiation Effect

- Promoting blood circulation & metabolism and activation of tissues
- Improving regeneration of living tissues by discharging wastes and harmful metals out of the body
- Reducing blood pressure, promoting autonomic venous system balance, and increasing skin blood flow

### III) Anti-inflammation Effect

### IV) UV Filter Effect

## I Manufacturing & Research Facilities



- Sheet Mica Refinement Technology
- High-purity Refinement Technology Using Decantation
- Characterization Task Technology for Aspect Ratio of Sheet Raw Materials
- Characterization Task Technology Using Crushing Equipment for Particles
- High-purity Refinement Technology for Raw Materials of Cosmetics Using A High-Tech Technology
- Technology for Development of Raw Materials with Natural Colors Using Sheet Raw Materials
- Silicon Separation of The Raw Materials with Natural Colors and Microelement Refinement Technology
- Eco-Friendly Technology for Treatment of Heavy Metals