

**PRODUCT SPECIFICATIONS****CQV Co., Ltd.**

|                       |   |
|-----------------------|---|
| <b>Product Name:</b>  | <b>CQV PEARL PIGMENT</b>  |
| <b>Trade Name:</b>    | <b>Tonos™ Dazzling Standard T-1900S</b>   |
| <b>Manufacturer:</b>  | <b>CQV Co., Ltd.</b><br>144, Seongjung-Ro, Jincheon-Eup, Jincheon-Gun, Chungbuk-Do, Korea<br>Tel. 82-43-531-2500, Fax. 82-43-536-0314 |
| <b>Date Prepared:</b> | Rev. 2, February 18th, 2013   |

|                       |   |
|-----------------------|---|
| <b>1. Appearance:</b> | Brilliant Silver White, Free-flowing Powder |
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| <b>2. Ingredients and Composition</b> |
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| Ingredients                | Composition            | By Weight (%) | CAS No.    | EINECS    |
|----------------------------|------------------------|---------------|------------|-----------|
| Synthetic Fluorophlogopite | $KMg_3AlSi_3O_{10}F_2$ | 71 - 81       | 12003-38-2 | 234-426-5 |
| Titanium Dioxide           | $TiO_2$                | 19 - 29       | 13463-67-7 | 236-675-5 |

|   |                |     |   |     |                                |
|---|----------------|-----|---|-----|--------------------------------|
| <b>3. Particle Size (<math>\mu m</math>):</b> | Mean Diameters | D10 | - | D90 | (By Malvern Mastersizer 2000S) |
|   |                | 9   | - | 45  |                                |

|               |            |                          |
|---------------|------------|--------------------------|
| <b>4. pH:</b> | 7.0 - 11.0 | (10% Aqueous Suspension) |
|---------------|------------|--------------------------|

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|---------------------------|------------|
| <b>5. Loss on Drying:</b> | 0.5 % max. |
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| <b>6. Loss on Ignition:</b> | 0.5 % max. |
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| <b>7. Density (g/cm<sub>3</sub>)</b> | 2.9 - 3.1 |
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|-----------------------------------|---------|
| <b>8. Oil Absorption (g/100g)</b> | 58 - 78 |
|-----------------------------------|---------|

|                                    |            |
|------------------------------------|------------|
| <b>9. Acid Soluble Substances:</b> | 2.0 % max. |
|------------------------------------|------------|

|                            |                                  |             |           |
|----------------------------|----------------------------------|-------------|-----------|
| <b>10. Trace Elements:</b> | Mercury (Hg)                     | 1 ppm max.  | IEC 62321 |
|                            | Lead (Pb)                        | 10 ppm max. |           |
|                            | Cadmium (Cd)                     | 1 ppm max.  |           |
|                            | Hexavalent Chromium( $Cr^{6+}$ ) | 5 ppm max.  |           |