

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

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| Product Name: | CQV PEARL PIGMENT |
| Trade Name: | Reflex™ Super Glitter Copper R-640G |
| Manufacturer: | CQV Co., Ltd. 144, Seongjung-Ro, Jincheon-Eup, Jincheon-Gun, Chungbuk-Do, Korea Tel. 82-43-531-2500, Fax. 82-43-536-0314 |
| Date Prepared: | Rev. 3, February 18th, 2013 |

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| 1. Appearance: | Sparkle Brown, Free-flowing Powder |
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2. Ingredients and Composition

| Ingredients | Composition | By Weight (%) | CAS No. | EINECS |
|----------------------------|------------------------|---------------|------------|-----------|
| Synthetic Fluorophlogopite | $KMg_3AlSi_3O_{10}F_2$ | 78 - 88 | 12003-38-2 | 234-426-5 |
| Iron Oxide | Fe_2O_3 | 12 - 22 | 1309-37-1 | 215-168-2 |

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| 3. Particle Size (μm): | Mean Diameters | D10 | - | D90 | (By Malvern Mastersizer 2000S) |
| | | 30 | - | 250 | |

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| 4. pH: | 7.0 - 11.0 | (10% Aqueous Suspension) |
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| 5. Loss on Drying: | 0.5 % max. |
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| 6. Loss on Ignition: | 0.5 % max. |
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| 7. Density (g/cm_3) | 3.0 - 3.3 |
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| 8. Oil Absorption ($g/100g$) | 81 - 101 |
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| 9. Acid Soluble Substances: | 2.0 % max. |
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| 10. Trace Elements: | Mercury (Hg) | 1 ppm max. | IEC 62321 |
| | Lead (Pb) | 10 ppm max. | |
| | Cadmium (Cd) | 5 ppm max. | |
| | Hexavalent Chromium(Cr^{6+}) | 5 ppm max. | |