

PRODUCT SPECIFICATIONS



CQV Co., Ltd.

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|-----------------------|---|
| Product Name: | CQV PEARL PIGMENT |
| Trade Name: | Reflex™ Micro Blue R-780M |
| 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 |

1. Appearance: Fine Yellowish, Free-flowing Powder

2. Ingredients and Composition

| Ingredients | Composition | By Weight (%) | | | CAS No. | EINECS |
|----------------------------|------------------------|---------------|---|------|------------|-----------|
| Synthetic Fluorophlogopite | $KMg_3AlSi_3O_{10}F_2$ | 27.0 | - | 38.7 | 12003-38-2 | 234-426-5 |
| Iron Oxide | $\alpha-Fe_2O_3$ | 0.3 | - | 2.0 | 1309-37-1 | 215-168-2 |
| Titanium Dioxide | TiO_2 | 61.0 | - | 71.0 | 13463-67-7 | 236-675-5 |

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|---|----------------|-----|---|-----|--------------------------------|
| 3. Particle Size (μm): | Mean Diameters | D10 | - | D90 | (By Malvern Mastersizer 2000S) |
| | | 3 | - | 17 | |

4. pH: 7.0 - 11.0 (10% Aqueous Suspension)

5. Loss on Drying: 0.5 % max.

6. Loss on Ignition: 0.5 % max.

7. Density (g/cm_3): 3.4 - 3.7

8. Oil Absorption ($g/100g$): 60 - 80

9. Acid Soluble Substances: 2.0 % max.

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