

**Moonshine® Colour Travel Gold-Red-Violet Shimmer**

**Production Code: GFE-GRV**

**Technical Information**

Moonshine® colour travel series are based on our thin borosilicate glass flakes which have an average thickness of 1.0 micron and are coated with layers of high refractive index metal oxides and Silica, resulting in unique pigments that display strong colour flop effects combined with high transparency and extraordinary gloss.

| Composition                 |                  |               |            |        |
|-----------------------------|------------------|---------------|------------|--------|
| Ingredients                 | Composition      | By Weight (%) | CAS No.    | CI No. |
| Calcium Sodium Borosilicate | Glass            | 40 - 85       | 65997-17-3 | -      |
| Tin Oxide                   | SnO <sub>2</sub> | 0 - 1         | 18282-10-5 | 77861  |
| Titanium Dioxide            | TiO <sub>2</sub> | 5 - 25        | 13463-67-7 | 77891  |
| Silica                      | SiO <sub>2</sub> | 10 - 30       | 7631-86-9  | -      |

|                                      |          |     |     |                                 |             |
|--------------------------------------|----------|-----|-----|---------------------------------|-------------|
| <b>Nominal flake thickness</b> (µm): | Uncoated | 1.0 |     | Coated                          | 1.21 - 2.21 |
| <b>Particle Size Diameter</b> (µm):  | Mean     | D10 | D90 | (Laser diffraction Measurement) |             |
|                                      |          | 30  | 100 |                                 |             |
| <b>Oil Absorption g/100g:</b>        | Range    | 110 | 140 | ASTM D281-12                    |             |

|                        |            |                          |
|------------------------|------------|--------------------------|
| <b>pH:</b>             | 7.0 - 11.0 | (10% Aqueous Suspension) |
| <b>Loss on Drying:</b> | 0.5 % max  |                          |

|                           |                     |            |                          |
|---------------------------|---------------------|------------|--------------------------|
| Trace Elements - Typical: | Mercury (Hg)        | 2 ppm max  | IEC 62321:2013<br>ICP-MS |
|                           | Arsenic (As)        | 5 ppm max  |                          |
|                           | Lead (Pb)           | 10 ppm max |                          |
|                           | Cadmium (Cd)        | 2 ppm max  |                          |
|                           | Total Barium (Ba)   | 50 ppm max |                          |
|                           | Antimony (Sb)       | 2 ppm max  |                          |
|                           | Total Chromium (Cr) | 15 ppm max |                          |
|                           | Nickel (Ni)         | 10 ppm max |                          |
|                           | Copper (Cu)         | 5 ppm max  |                          |
|                           | Cobalt (Co)         | 5 ppm max  |                          |
|                           | Selenium (Se)       | 2 ppm max  |                          |
| <b>Microorganisms:</b>    | 100 CFU/g max.      |            | No Pathogens             |

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This information is given in good faith without guarantee or liability. All values are approximate.