Reflecks™ MultiDimensions and MultiReflections™
Dramatic color travel effects

Reflecks™ MultiDimensions and MultiReflections™ pigments combine striking chromatic appearance with dramatic changes in color at different angles of illumination, producing fascinating color effects in cosmetic and personal care formulations.

On the skin or in suspension, these pigments appear to be one color, but with changes in the viewing angle the color suddenly shifts across the color spectrum. BASF offers high chroma, sparkle, and dramatic color travel effect on smooth borosilicate flake under the Reflecks™ MultiDimensions line, and a more subtle, softer color travel effect on mica under the MultiReflections™ line.
Mica Based – MultiReflections™

MultiReflections™ Soft Sparkle pigments, through their thin film optics, offer refined color travel and silky skin feel for enhancing the appearance of consumer products such as make-up, skincare care and personal care products. Demonstrating a color shift across adjacent colors, these pigments impart a sense of depth, glow and radiance to formulations. In opaque formulas, they provide a subtle color shifting effect complementing and enhancing skin’s natural color and glow. In transparent bases, the color travel effect delights and can be enhanced by adding a tint of background color.

Due to their particle size and tight range of color variation, an interesting visual transformation occurs on a subtle scale, providing a sophisticated light sparkle that creates intrigue and depth.

Interference Borosilicate Based – Reflecks™ MultiDimensions

BASF Reflecks™ MultiDimensions color travel pigments give cosmetics vibrant life by changing their color with the movement of the wearer. Representing the latest advance in borosilicate pigment technology, these multi-dimensional effect materials make distinctive color travel effects possible in both color cosmetics and personal care products. BASF’s patented non-quarter-wave multi-layer coating technology makes it possible. In addition to their dynamic color shifts, Reflecks™ MultiDimensions also add dramatic sparkle and visual dimensionality. This makes them especially eye-catching in transparent formulations such as gels, clear sticks and nail enamels. Reflecks™ MultiDimensions can also be used in moderately opaque formulas and still maintain their optical properties.

The chips on this card show the colors over white and black base coats to illustrate transmission and reflection effects, respectively. This color card is a representation of color shown. The final color and effect may vary depending on the formulation in which the pigment is contained. Users should test product in their own formulations.
Interference Borosilicate Based – Reflecks™ MultiDimensions

- Glistening Gold G280D
- Changing Cherry G480D
- Varying Violet G580D
- Shifting Sapphire G680D
Interference Borosilicate Based - Reflecks™ MultiDimensions

Metallic Borosilicate Based – Reflecks™ MultiDimensions

Reflecks™ MultiDimensions Twisted Terracotta and Swirling Sweetberry pigments offer a strong chromatic color travel combined with metallic effects. The smooth, platy borosilicate substrate allows excellent color travel as the viewing angle changes, and the additional metallic effect provides an absorption color effect to the pigment.

Reflecks™ MultiDimensions Twisted Terracotta travels in hue from a flash of metallic copper, to a brilliant bronze. The metallic characteristic will provide the base color of the formula with a strong copper hue.

Reflecks™ MultiDimensions Swirling Sweetberry travels in hue from a flash of metallic russet, to a brilliant bronze. The metallic characteristic will provide the base color of the formula with a strong russet hue.
## Reflecks™ MultiDimensions and MultiReflections™

Typical properties and technical data

<table>
<thead>
<tr>
<th>Grade*</th>
<th>Composition</th>
<th>Particle size [μm] range**</th>
<th>Density [kg/L]</th>
<th>Approx. bulk density***</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>lb/ft³ g/100cm³</td>
</tr>
</tbody>
</table>

### Reflecks™ MultiDimensions

<table>
<thead>
<tr>
<th>Grade*</th>
<th>Composition</th>
<th>Particle size [μm] range**</th>
<th>Density [kg/L]</th>
<th>Approx. bulk density***</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glistening Gold G280D</td>
<td>Borosilicate, TiO₂, SiO₂</td>
<td>31–121</td>
<td>3.0</td>
<td>27</td>
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<tr>
<td>Changing Cherry G480D</td>
<td>Borosilicate, TiO₂, SiO₂</td>
<td>26–125</td>
<td>3.0</td>
<td>30</td>
</tr>
<tr>
<td>Varying Violet G580D</td>
<td>Borosilicate, TiO₂, SiO₂</td>
<td>30–132</td>
<td>3.0</td>
<td>27</td>
</tr>
<tr>
<td>Shifting Sapphire G680D</td>
<td>Borosilicate, TiO₂, SiO₂</td>
<td>29–131</td>
<td>3.0</td>
<td>27</td>
</tr>
<tr>
<td>Transforming Teal G780D</td>
<td>Borosilicate, TiO₂, SiO₂</td>
<td>27–127</td>
<td>3.0</td>
<td>23</td>
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<tr>
<td>Twisted Terracotta G390D</td>
<td>Borosilicate, TiO₂, SiO₂, Fe₂O₃</td>
<td>29–124</td>
<td>3.0</td>
<td>23</td>
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<tr>
<td>Swirling Sweetberry G490D</td>
<td>Borosilicate, TiO₂, SiO₂, Fe₂O₃</td>
<td>30–123</td>
<td>3.0</td>
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</tbody>
</table>

### MultiReflections™ Soft Sparkle Pigments

<table>
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<tr>
<th>Grade*</th>
<th>Composition</th>
<th>Particle size [μm] range**</th>
<th>Density [kg/L]</th>
<th>Approx. bulk density***</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunflower 380P</td>
<td>Mica, TiO₂, SiO₂</td>
<td>14–78</td>
<td>2.9</td>
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<tr>
<td>Rose 480P</td>
<td>Mica, TiO₂, SiO₂</td>
<td>16–80</td>
<td>2.8</td>
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<tr>
<td>Orchid 580P</td>
<td>Mica, TiO₂, SiO₂</td>
<td>16–80</td>
<td>2.8</td>
<td>24</td>
</tr>
</tbody>
</table>

* Please refer to individual product specification sheets for certifiable product specifications

** The particle size results will vary depending on the light scattering instrument used. The values listed (as % by weight) are the results using a Malvern Mastersizer. 80% of particles are found between the ranges noted in the table.

*** Determined by ASTM Method D–716–86
Get in touch

Call us about our other products for cosmetic and personal care applications.

BASF Effect Pigment Line

Biju® and Biju® Ultra Pigments
Bi-Lite® Bismuth Oxychloride/Mica Pigments
Cellini® Colors
Chione™ Pigments
Chroma-Lite® Colors
Cloisonné® Metallic Look Pigments
Duochrome® Iridescent Colors
Flamenco® Pearlescent & Iridescent Pigments
Gemtone® Colors

Mearlmica® Specialty Performance Mica
Mearlmica® SVA Treated Performance Mica
MultiRefections™ Soft Sparkle Pigments
Pearl-Glo® Bismuth Oxychloride Pigments
Reflecks™ Pearlescent & Iridescent Pigments and Colors
Reflecks™ Dimensions Pearlescent & Iridescent Pigments and Colors
Reflecks™ MultiDimensions Color Changing Pigments
Timica® Pearlescent & Iridescent Pigments and Colors

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