SILICATE PEARLESCENT **PIGMENT**

2023 Product Brochure

sandream specialties

A VIVIFY COMPANY

INSPIRATION **DELIVERED**

ABOUT SANDREAM SPECIALTIES

Sandream Specialties is a global raw material supplier for the Cosmetics & Personal Care industry. With its expanded R&D and production sites, Sandream has enhanced its capacity for new color development, color matching, formulation, blending and dispersion services. We offer the most extensive range of innovative effect pigments and color ingredients, along with cosmetic actives, aesthetic modifiers, and visual delivery systems. We are the one-stop-shop solution provider for all your beauty needs.

Together with our affiliates and strategic partners in North America, Latin America, Europe and Asia, Sandream Specialties assures you:

- Best-in-class customer service
- Unique and novel ingredients with superior quality
- Custom sourcing and access to global resources
- Local inventory with prompt delivery and sampling
- Technical and Regulatory support and guidance

OUR MISSION

We believe in social responsibility, transparency, attentiveness, reliability, and partnership. With our reputation for innovation and excellence, we inspire new ways to deliver beauty.

QUALITY POLICY

Sandream Specialties is dedicated to providing top quality products and services to our customers. We are committed to satisfying industry and customer requirements and to the continuous improvement of our business, products, processes, and quality management system.

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A VIVIFY COMPANY

+1 973.882.3077
info@sandreamspecialties.com
www.sandreamspecialties.com

GLASS BASED **PEARLESCENT PIGMENTS**

Pearlescent pigments are widely used in the cosmetic industry to add luster, sparkle, impart color or color-travel effects, and provide coverage. Pearls are utilized in many cosmetics applications including nail polish, eye shadow, lipstick and blush.

There are several types of cosmetic pearls available based on different substrates such as natural mica, guanine, bismuth oxychloride, synthetic mica (fluorphlogophite) and calcium aluminum silicate. Each substrate offers its own unique qualities and benefits.

Our glass based pearlescent pigments, offered under our Diamond and Glamour brands, deliver exceptional dramatic optical effects including significant depth, sparkle and intense spectral colors. Pigments in this category achieve high levels of chromaticity, color purity, brightness, transparency and reflectivity.

At a relatively large particle size, but thinner and smoother in surface than competitive borosilicates, our Diamond and Glamour pearls offer formulators in the color cosmetic industry the ability to create brilliant, star-like sparkle effects.

Diamond and Glamour pigments can also add great visual complexity and dimensionality due to their novel substrate which has a high level of transparency. When two or more shades are blended, a true multicolor appearance is produced.

Similar to our mica and synthetic mica pearlescent pigment categories, the Diamond and Glamour Lines are available in a wide range of colors and particle sizes: silver white, interference, golden, metallic, colored pearls and color travel. Our extensive collection will be sure to fulfill and exceed our customers' needs across a broad base of cosmetic & personal care formulations.

CONTENT

WHITE/SILVER PIGMENTS	1
INTERFERENCE PIGMENTS	3
GOLD PIGMENTS	5
METALLIC PIGMENTS	5
RED/PINK/PURPLE PIGMENTS	6
BLUE PIGMENTS	6
GREEN PIGMENTS	7
YELLOW/ORANGE PIGMENTS	7
BLACK/GREY PIGMENTS	8
DUO-CHROME PIGMENTS	8
COLOR VARIABLE PIGMENTS	9
USAGE GUIDE	13

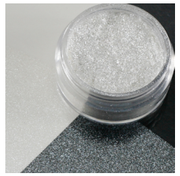
WHITE/SILVER PIGMENTS

Glamour Silk Silver
10 - 70 µm

Diamond Fine Silver
20 - 150 µm

Diamond Crystal White
50 - 200 µm

Diamond Dust White
50 - 200 µm



Diamond Sparkle White
20 - 200 µm

Glamour Bright White
50 - 250 µm

Glamour Shimmer White
60 - 250 µm

Diamond Silver White
20 - 500 µm

Diamond Star White
100 - 500 µm

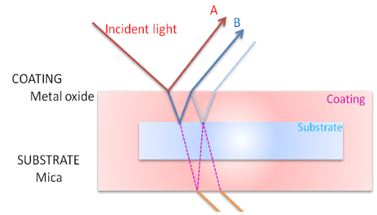
Product	Code	INCI	Particle Size
Glamour Diamond Fine White	G1012	Al. Ca. Na. Silicate, TiO_2, SnO_2	5 - 30 µm
Glamour Silk Silver	G1001	Al. Ca. Na. Silicate, TiO_2, SnO_2	10 - 70 µm
Diamond Fine Silver	GGM-FS150	Al. Ca. Na. Silicate, TiO_2, SnO_2, Silica	20 - 150 µm
Diamond Crystal White	GWX-973	Calcium Sodium Borosilicate, TiO_2, SnO_2	50 - 200 µm
Diamond Dust White	GIX-100	Al. Ca. Na. Silicate, TiO_2, SnO_2	50 - 200 µm
Diamond Sparkle White	GW-DPSW	Al. Ca. Na. Silicate, TiO_2, SnO_2	50 - 200 µm
Glamour Bright White	G1201	Al. Ca. Na. Silicate, TiO_2, SnO_2	50 - 250 µm
Glamour Shimmer White	G1605	Al. Ca. Na. Silicate, TiO_2, SnO_2	60 - 250 µm
Diamond Silver White	GWX-SW500	Al. Ca. Na. Silicate, TiO_2, SnO_2, Silica	20 - 500 µm
Diamond Star White	GIX-1810	Al. Ca. Na. Silicate, TiO_2, SnO_2	100 - 500 µm
Diamond Superstar White	GIX-W700	Al. Ca. Na. Silicate, TiO_2, SnO_2	100 - 700 µm

*The pictures above are a representative selection of our pearl pigments. The additional products listed in the table differ primarily in particle size, where a wide selection of images would be redundant. The basic color appearance will remain consistent across the particle size spectra.

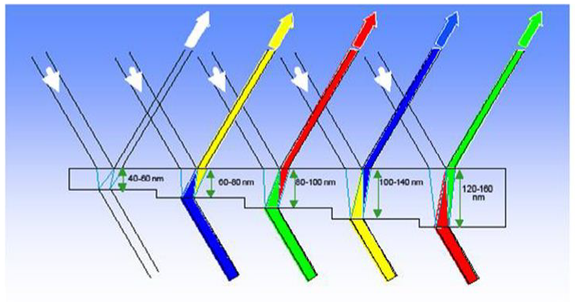
PEARLESCENT PIGMENTS - TECHNICAL OVERVIEW

Two parameters are critical to the pigment's appearance:

- **Metal oxide layer thickness**
- **Lateral size of particle**
  - Smaller are more satiny & opaque
  - Larger are more sparkly & transparent



METAL OXIDE LAYER THICKNESS



Thickness of the metal oxide layer determines the (reflected) interference color.

** Note that the complementary color is transmitted*

PARTICLE SIZE EFFECT

CHARACTERISTICS

- Semi-transparent
- Colors based on combination of light interference and absorption color of metal oxide layer
- Multiple surfaces of reflection give "pearl luster" finish

INTERFERENCE PIGMENTS

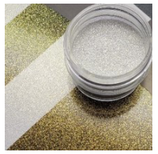
Glamour Smooth Interference Gold
20 - 60 µm

Glamour Smooth Interference Violet
20 - 60 µm

Glamour Smooth Interference Blue
20 - 60 µm

Glamour Smooth Interference Green
20 - 60 µm

Glamour Smooth Interference Cherry
20 - 60 µm



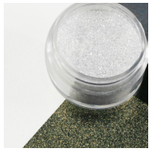
Diamond Crystal Gold
50 - 200 µm

Diamond Crystal Turquoise
50 - 200 µm

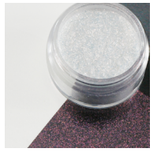
Diamond Crystal Red
50 - 200 µm

Diamond Crystal Green
50 - 200 µm

Diamond Crystal Violet
50 - 200 µm

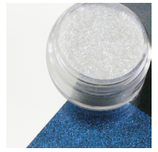


Glamour Glittering Gold
50 - 350 µm

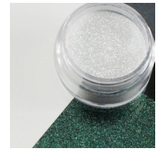


Glamour Glittering Red
50 - 350 µm

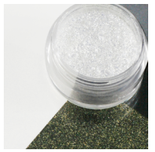
Glamour Glittering Violet
50 - 350 µm



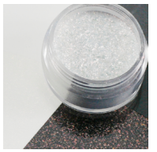
Glamour Glittering Blue
50 - 350 µm



Glamour Glittering Green
50 - 350 µm

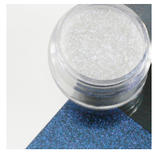


Diamond Star Gold
50 - 500 µm

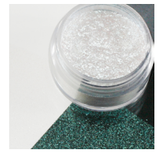


Diamond Star Red
50 - 500 µm

Diamond Star Violet
50 - 500 µm



Diamond Star Blue
50 - 500 µm



Diamond Star Green
50 - 500 µm

Product	Code	INCI	Particle Size
Glamour Smooth Interference Cherry	G2825	Al. Ca. Na. Silicate, TiO2, SnO2	10 - 60 µm
Glamour Smooth Interference Gold	G2879J	Al. Ca. Na. Silicate, TiO_2	20 - 60 µm
Glamour Smooth Interference Violet	G2876J	Al. Ca. Na. Silicate, TiO_2	20 - 60 µm
Glamour Smooth Interference Blue	G2875J	Al. Ca. Na. Silicate, TiO_2	20 - 60 µm
Glamour Smooth Interference Green	G2873J	Al. Ca. Na. Silicate, TiO_2	20 - 60 µm
Glamour TC Spark Interference Gold	-	Al. Ca. Na. Silicate, TiO_2, SnO_2	85 - 90 µm
Glamour Shimmer Turquoise	G2854J	Al. Ca. Na. Silicate, TiO_2	10 - 100 µm
Glamour Interference Gold	G2111	Al. Ca. Na. Silicate, TiO_2, SnO_2	30 - 150 µm
Glamour Interference Red	G2121	Al. Ca. Na. Silicate, TiO_2, SnO_2	30 - 150 µm
Glamour Interference Violet	G2131	Al. Ca. Na. Silicate, TiO_2, SnO_2	30 - 150 µm
Glamour Interference Blue	G2141	Al. Ca. Na. Silicate, TiO_2, SnO_2	30 - 150 µm
Glamour Interference Green	G2151	Al. Ca. Na. Silicate, TiO_2, SnO_2	30 - 150 µm
Diamond Crystal Gold	GIX-913	Al. Ca. Na. Silicate, TiO_2, SnO_2	50 - 200 µm
Diamond Crystal Green	GIX-963	Al. Ca. Na. Silicate, TiO_2, SnO_2	50 - 200 µm

INTERFERENCE PIGMENTS

Product	Code	INCI	Particle Size
Diamond Crystal Red	GIX-923	Al. Ca. Na. Silicate, TiO_2, SnO_2	50 - 200 µm
Diamond Crystal Turquoise	GIX-953	Al. Ca. Na. Silicate, TiO_2, SnO_2	50 - 200 µm
Diamond Crystal Violet	GIX-943	Al. Ca. Na. Silicate, TiO_2, SnO_2	50 - 200 µm
Diamond Dust Multi Colors	GIX-200	Al. Ca. Na. Silicate, TiO_2, SnO_2	50 - 200 µm
Diamond Dust Gold	GIX-300	Al. Ca. Na. Silicate, TiO_2, SnO_2	50 - 300 µm
Diamond Dust Red	GIX-400	Al. Ca. Na. Silicate, TiO_2, SnO_2	50 - 300 µm
Diamond Dust Purple	GIX-500	Al. Ca. Na. Silicate, TiO_2, SnO_2	50 - 300 µm
Diamond Dust Blue	GIX-600	Al. Ca. Na. Silicate, TiO_2, SnO_2	50 - 300 µm
Diamond Dust Green	GIX-700	Al. Ca. Na. Silicate, TiO_2, SnO_2	50 - 300 µm
Glamour Glittering Blue	G2241	Al. Ca. Na. Silicate, TiO_2, SnO_2	50 - 350 µm
Glamour Glittering Gold	G2211	Al. Ca. Na. Silicate, TiO_2, SnO_2	50 - 350 µm
Glamour Glittering Green	G2251	Al. Ca. Na. Silicate, TiO_2, SnO_2	50 - 350 µm
Glamour Glittering Red	G2221	Al. Ca. Na. Silicate, TiO_2, SnO_2	50 - 350 µm
Glamour Glittering Violet	G2231	Al. Ca. Na. Silicate, TiO_2, SnO_2	50 - 350 µm
Diamond Star Gold	GIX-Gld500	Al. Ca. Na. Silicate, TiO_2, SnO_2	50 - 500 µm
Diamond Star Red	GIX-R500	Al. Ca. Na. Silicate, TiO_2, SnO_2	50 - 500 µm
Diamond Star Violet	GIX-V500	Al. Ca. Na. Silicate, TiO_2, SnO_2	50 - 500 µm
Diamond Star Blue	GIX-B500	Al. Ca. Na. Silicate, TiO_2, SnO_2	50 - 500 µm
Diamond Star Green	GIX-Grn500	Al. Ca. Na. Silicate, TiO_2, SnO_2	50 - 500 µm
Diamond Superstar Gold	GIX-Gld700	Al. Ca. Na. Silicate, TiO_2, SnO_2	100 - 700 µm
Diamond Superstar Red	GIX-R700	Al. Ca. Na. Silicate, TiO_2, SnO_2	100 - 700 µm
Diamond Superstar Violet	GIX-V700	Al. Ca. Na. Silicate, TiO_2, SnO_2	100 - 700 µm
Diamond Superstar Blue	GIX-B700	Al. Ca. Na. Silicate, TiO_2, SnO_2	100 - 700 µm
Diamond Superstar Green	GIX-Grn700	Al. Ca. Na. Silicate, TiO_2, SnO_2	100 - 700 µm

INTRODUCING :

SANDREAM SPECIALTIES **COLOR STUDIO**

We are proud to present an innovative online tool which may be utilized by customers to streamline pigment choices from our extensive portfolio by application and desired effect. This feature displays outstanding visuals of our stunning pearlescent pigments enabling the user to make effective choices while providing an abundance of valuable information.

WWW.SDICOLORSTUDIO.COM

GOLD PIGMENTS

Diamond Silk Gold
10 - 100 µm

Diamond Silk Red Gold 10 - 100 µm

Diamond Silk Violet Gold 10 - 100 µm

Diamond Fine Gold
20 - 150 µm

Diamond Light Gold
80 - 200 µm

Diamond Sunny Gold
80 - 200 µm

Glamour Gold Chrome 50 - 250 µm

Diamond Gold
20 - 500 µm

Product	Code	INCI	Particle Size
Diamond Silk Gold	GVL-SG	Al. Ca. Na. Silicate, Iron Oxides, SnO_2, TiO_2	10 - 100 µm
Diamond Silk Red Gold	GVL-RG	Al. Ca. Na. Silicate, TiO_2, SnO_2	10 - 100 µm
Diamond Silk Violet Gold	GVL-VG	Al. Ca. Na. Silicate, Iron Oxides, SnO_2, TiO_2	10 - 100 µm
Diamond Fine Gold	GGM-FG150	Al. Ca. Na. Silicate, Iron Oxides, Silica	20 - 150 µm
Diamond Light Gold	GCX-8311	Al. Ca. Na. Silicate, Iron Oxides, SnO_2, TiO_2	80 - 200 µm
Diamond Red Gold	GCX-8331	Al. Ca. Na. Silicate, Iron Oxides, SnO_2, TiO_2	80 - 200 µm
Diamond Sunny Gold	GCX-8321	Al. Ca. Na. Silicate, Iron Oxides, SnO_2, TiO_2	80 - 200 µm
Glamour Gold Chrome	G5024	Al. Ca. Na. Silicate, TiO_2, SnO_2, Iron Oxides	50 - 250 µm
Diamond Gold	GMX-Gld500	Al. Ca. Na. Silicate, Iron Oxides, Silica	20 - 500 µm

METALLIC PIGMENTS

Glamour Flashy Copper 50 - 200 µm

Diamond Dust Bronze 80 - 200 µm

Glamour Metallic Sand 50 - 250 µm

Glamour Neon Copper
50 - 300 µm

Diamond Bronze
20 - 500 µm

Diamond Copper
20 - 500 µm

Product	Code	INCI	Particle Size
Glamour Flashy Copper	G5232	Al. Ca. Na. Silicate, TiO_2, SnO_2 , Red 40	50 - 200 µm
Diamond Dust Bronze	GCX-5511	Al. Ca. Na. Silicate, Iron Oxides	80 - 200 µm
Glamour Metallic Sand	G0024	Al. Ca. Na. Silicate, TiO_2, SnO_2, Iron Oxides	50 - 250 µm
Glamour Neon Copper	G4232	Al. Ca. Na. Silicate, TiO_2, SnO_2, Red 40	50 - 300 µm
Diamond Bronze	GMX-Brz500	Al. Ca. Na. Silicate, Iron Oxides, Silica	20 - 500 µm
Diamond Copper	GMX-Cpr500	Al. Ca. Na. Silicate, Iron Oxides, Silica	20 - 500 µm

RED/PINK/PURPLE PIGMENTS

Glamour Classic Hot Pink
20 - 100 µm

Glamour Classic Bubble Gum 20 - 100

Glamour Tropic Red
10 - 125 µm

Glamour Milky Way
10 - 125 µm

Glamour Flashy Pink 50 - 200 µm

Glamour Flashy Purple
50 - 200 µm

Glamour Bubble Gum Pink 80 - 200 µm

Glamour Carmine Pink
80 - 200 µm

Glamour Hot Pink
50 - 250 µm

Glamour CF Deep Pink 50 - 250 µm

Glamour CF Hot Pink
50 - 250 µm

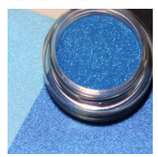
Glamour CF Rose Gold
50 - 250 µm

Glamour Neon Pink
50 - 300 µm

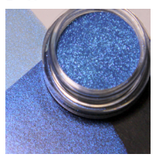
Glamour Neon Purple
50 - 300 µm

Product	Code	INCI	Particle Size
Glamour Classic Hot Pink	G7164	Al. Ca. Na. Silicate, TiO_2, SnO_2, Carmine	20 - 100 µm
Glamour Classic Bubble Gum	G7122	Al. Ca. Na. Silicate, TiO_2, SnO_2, Carmine	20 - 100 µm
Glamour Tropic Red	G8429R	Al. Ca. Na. Silicate, TiO_2, FD&C Red 40 Al Lake, SnO_2	10 - 125 µm
Glamour Milky Way	G8439VB	Al. Ca. Na. Silicate, TiO_2, Manganese Violet	10 - 125 µm
Glamour Flashy Pink	G5262	Al. Ca. Na. Silicate, TiO_2, SnO_2, Red 28	50 - 200 µm
Glamour Flashy Purple	G5192	Al. Ca. Na. Silicate, TiO_2, SnO_2, Red 28	50 - 200 µm
Glamour Bubble Gum Pink	G4212Y	Al. Ca. Na. Silicate, TiO_2, SnO_2, Carmine	80 - 200 µm
Glamour Carmine Pink	G4222	Al. Ca. Na. Silicate, TiO_2, SnO_2, Carmine	80 - 200 µm
Glamour Hot Pink	G7174	Al. Ca. Na. Silicate, TiO_2, SnO_2, Carmine	50 - 250 µm
Glamour CF Deep Pink	G7064	Al. Ca. Na. Silicate, TiO_2, Red 7, SnO_2	50 - 250 µm
Glamour CF Hot Pink	G7074	Al. Ca. Na. Silicate, TiO_2, Red 7, SnO_2	50 - 250 µm
Glamour CF Rose Gold	G3174S	Ca.Na.Borosilicate; TiO_2, Iron Oxides; Red 7; Tin Oxide	50 - 250 µm
Glamour Neon Pink	G4262	Al. Ca. Na. Silicate, TiO_2, SnO_2, Red 28	50 - 300 µm
Glamour Neon Purple	G4192	Al. Ca. Na. Silicate, TiO_2,SnO_2, Red 28	50 - 300 µm

BLUE PIGMENTS



Glamour Glowing Blue 20 - 80 µm



Glamour Classic Lucky Blue 20 - 100 µm

Glamour Brilliant Blue 15 - 105 µm

Diamond Light Blue
80 - 200 µm

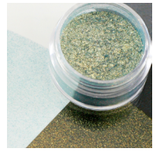
Diamond Sky Blue
80 - 200 µm

Product	Code	INCI	Particle Size
Glamour Glowing Blue	G8252	Al. Ca. Na. Silicate, TiO_2, SnO_2, Blue 1	20 - 80 µm
Glamour Classic Lucky Blue	G7664	Al. Ca. Na. Silicate, TiO_2, SnO_2, Ferric Ferrocyanide	20 - 100 µm
Glamour Brilliant Blue	G7884	Al. Ca. Na. Silicate, TiO_2, SnO_2, Ferric Ferrocyanide	15 - 105 µm
Diamond Light Blue	GCX-4405	Al. Ca. Na. Silicate, TiO_2, SnO_2, Ferric Ferrocyanide	80 - 200 µm
Diamond Sky Blue	GCX-4425	Al. Ca. Na. Silicate, TiO_2, SnO_2, Ferric Ferrocyanide	80 - 200 µm

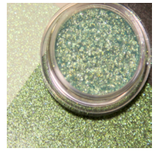
GREEN PIGMENTS

Glamour Glowing Green 20 - 80 µm

Glamour Flashy Emerald 50 - 200 µm



Diamond Yellowish Green 80 - 200 µm



Glamour Neon Emerald 50 - 300 µm

Product	Code	INCI	Particle Size
Glamour Glowing Green	G8362	Al. Ca. Na. Silicate, TiO_2, SnO_2, Blue 1, Yellow 10	20 - 80 µm
Glamour Flashy Emerald	G5352	Al. Ca. Na. Silicate, TiO_2, SnO_2, Green 5	50 - 200 µm
Diamond Yellowish Green	GCX-4431	Al. Ca. Na. Silicate, TiO_2, SnO_2, Ferric Ferrocyanide	80 - 200 µm
Glamour Neon Emerald	G4352	Al. Ca. Na. Silicate, TiO_2, SnO_2, Green 5	50 - 300 µm

YELLOW/ORANGE PIGMENTS

Glamour Glowing Yellow 20 - 80 µm

Glamour Rainbow Saffron 20 - 100 µm

Glamour Creamsicle 20 - 100 µm

Glamour Flashy Orange 50 - 200 µm

Glamour Flashy Yellow 50 - 200 µm

Glamour Neon Yellow 50 - 300 µm

Glamour Neon Orange 50 - 300 µm

Product	Code	INCI	Particle Size
Glamour Glowing Yellow	G8212	Al. Ca. Na. Silicate, TiO_2, SnO_2, Yellow 10	20 - 80 µm
Glamour Rainbow Saffron	G5064	Al. Ca. Na. Silicate, TiO_2, SnO_2, Yellow 5 Lake	20 - 100 µm
Glamour Creamsicle	G5364	Al. Ca. Na. Silicate, TiO_2, SnO_2, Yellow 6 Lake	20 - 100 µm
Glamour Flashy Orange	G5172	Al. Ca. Na. Silicate, TiO_2, SnO_2,Yellow 6	50 - 200 µm
Glamour Flashy Yellow	G5152	Al. Ca. Na. Silicate, TiO_2, SnO_2, Yellow 5	50 - 200 µm
Glamour Neon Yellow	G4202	Al. Ca. Na. Silicate, TiO_2, SnO_2, Yellow 5	50 - 300 µm
Glamour Neon Orange	G4172	Al. Ca. Na. Silicate, TiO_2, SnO_2, Yellow 6	50 - 300 µm

BLACK/GREY PIGMENTS

Glamour Classic Sky Grey 20 – 100 µm

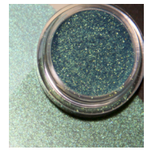
Product	Code	INCI	Particle Size
Glamour Classic Sky Grey	G9464	Al. Ca. Na. Silicate, TiO_2, SnO_2, TiO_2 Black	20 - 100 µm

DUO-CHROME PIGMENTS

Glamour Classic R/B 20 - 100 µm

Glamour Classic R/V 20 - 100 µm

Glamour Classic R/Y 20 - 100 µm



Glamour Classic B/G 20 - 100 µm

Glamour Classic B/V 20 - 100 µm

Glamour Classic B/Y 20 - 100 µm

Glamour CF P-B 50 - 250 µm

Glamour CF P-Y 50 - 250 µm

Product	Code	INCI	Particle Size
Glamour Classic R/B	G8264	Al. Ca. Na. Silicate, TiO_2, SnO_2, Carmine	20 - 100 µm
Glamour Classic R/V	G8464	Al. Ca. Na. Silicate, TiO_2, SnO_2, Carmine	20 - 100 µm
Glamour Classic R/Y	G8064	Al. Ca. Na. Silicate, TiO_2, SnO_2, Carmine	20 - 100 µm
Glamour Classic B/G	G8364A	Al. Ca. Na. Silicate, TiO_2, SnO_2, Ferric Ferrocyanide	20 - 100 µm
Glamour Classic B/V	G8964	Al. Ca. Na. Silicate, TiO_2, SnO_2, Ferric Ferrocyanide	20 - 100 µm
Glamour Classic B/Y	G8764	Al. Ca. Na. Silicate, TiO_2, SnO_2, Ferric Ferrocyanide	20 - 100 µm
Glamour CF P-B	G7084	Al. Ca. Na. Silicate, TiO_2, SnO_2, Red 7	50 - 250 µm
Glamour CF P-Y	G7054	Al. Ca. Na. Silicate, TiO_2, SnO_2, Red 7	50 - 250 µm

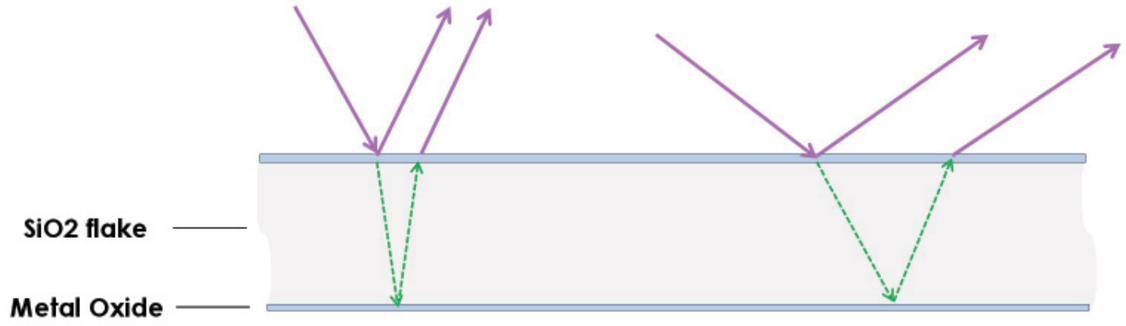
COLOR VARIABLE PIGMENTS

The technology behind Color Travel Pigments is the use of thin, precisely controlled coatings of titanium dioxide, or iron oxide, silica and tin oxide on Silicate platelets to separate white light into multiple component parts and produce up to four interference colors: three by reflection and one by transmission.

For a thin platelet, such as silica flake, light passing from the air into the flake is partly reflected at the interface between the air and the silica flake (due to a higher refractive index). The rest of the light is refracted and transmitted to the bottom interface of silica, where part of the light is reflected again back to the top surface. The smooth surface of these glass flakes produces a neutral mass tone, increased transparency and notable color intensity.

In the case of a system consisting of three thin layers of metal oxide coated silica flakes, the thickness of the silica layer will influence the path length of light. If the incident light is at a sharper or wider angle this directly effects the wavelength, resulting in different reflected colors.

These pigments are achromatic, highly transparent and have homogenous particle thickness. The transparency of the material allows for it to be used in conjunction with a background color for greater complexity.



Due to the **thickness of the silica layer**, the **path length (directly related to the color)** of the reflected light differs significantly. If the incident light is at a sharper or wider angle, **the reflected light will have differing wavelengths of reflected light => different reflected colors.**

Variations in structure (silica thickness, mica/silica combinations, etc.) will lead to a range of pigments with a variety of color-travel effects.

General Rules for using color-travel pigments in cosmetics:

- "Formulation-dependent"; so trial-and-error still necessary
- Fluid applications (liquids, gels) always show off travel effect better
- Avoid complementary interference pigments
- Less is more: the more transparent the formula, the better the effect
  - > Mass-tone pigments: more transparency gives better a effect
  - > Large sized mass-tone pigments can be combined with color-travel pigments to create very eye catching effects.
- Very large-sized color travel pigments (20 - 200 microns) can be used to provide both color-travel and sparkle in ways previously unavailable to the cosmetic formulator.

TRANSPARENT COLOR VARIABLE PIGMENTS

GlassMira BGG88
30 - 100 µm

GlassMira RVB88
30 - 100 µm

GlassMira VBG88
30 - 100 µm

GlassMira BGG87
40 - 150 µm

GlassMira GRV87
40 - 150 µm

GlassMira RVB87A
40 - 150 µm

GlassMira RVB87B
40 - 150 µm

GlassMira VBG87A
40 - 150 µm

GlassMira VBG87B
40 - 150 µm

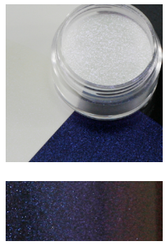
Product	Code	INCI	Particle Size
GlassMira BGG88	GM8813	Al. Ca. Na. Silicate, TiO_2, SnO_2	30 - 100 µm
GlassMira GG88	GM8853	Al. Ca. Na. Silicate, TiO_2, SnO_2, Iron Oxides	30 - 100 µm
GlassMira RVB88	GM8833	Al. Ca. Na. Silicate, TiO_2, SnO_2	30 - 100 µm
GlassMira VBG88	GM8843	Al. Ca. Na. Silicate, TiO_2, SnO_2	30 - 100 µm
GlassMira BGG87	GM8713	Al. Ca. Na. Silicate, TiO_2, SnO_2	40 - 150 µm
GlassMira GRV87	GM8723	Al. Ca. Na. Silicate, TiO_2, SnO_2	40 - 150 µm
GlassMira RVB87A	GM8733	Al. Ca. Na. Silicate, TiO_2, SnO_2	40 - 150 µm
GlassMira RVB87B	GM8743	Al. Ca. Na. Silicate, TiO_2, SnO_2	40 - 150 µm
GlassMira VBG87A	GM8753	Al. Ca. Na. Silicate, TiO_2, SnO_2	40 - 150 µm
GlassMira VBG87B	GM8763	Al. Ca. Na. Silicate, TiO_2, SnO_2	40 - 150 µm
GlassMira BGG86	GM8613	Al. Ca. Na. Silicate, TiO_2, SnO_2	50 - 200 µm
GlassMira GRV86	GM8623	Al. Ca. Na. Silicate, TiO_2, SnO_2	50 - 200 µm
GlassMira RVB86	GM8633	Al. Ca. Na. Silicate, TiO_2, SnO_2	50 - 200 µm
GlassMira VBG86	GM8643	Al. Ca. Na. Silicate, TiO_2, SnO_2	50 - 200 µm

*The photographs in this section offer two views of our pigments. The top view shows the appearance of our pigments with a reflective angle of approximately 45 degrees or higher. In order to show the actual color travel, we have shown our pigments photographed over a curved surface. Hence you can visualize how the color shifts from one color to several as the viewing angle changes along the curve. The photo represents the color coated over a black substrate to maximize the color travel effects.

TRANSPARENT COLOR VARIABLE PIGMENTS

Diamond Variable
BG 67 10 - 150 µm

Diamond Variable
GR 67 10 - 150 µm

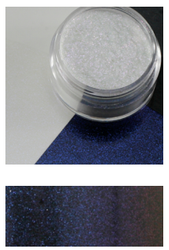


Diamond Variable
OB 67 10 - 150 µm

Diamond Variable
YV 67 10 - 150 µm

Diamond Variable
YG 47 10 - 150 µm

Diamond Variable
BG 64 20 - 500 µm



Diamond Variable
OB 64 20 - 500 µm

Diamond Variable
GV 64 20 - 500 µm

Diamond Variable
YV 64 20 - 500 µm

Diamond Variable
YG 44 20 - 500 µm

Product	Code	INCI	Particle Size
Diamond Variable BG 67	GDL-BG 67	Al. Ca. Na. Silicate, TiO_2, Silica	10 - 150 µm
Diamond Variable GR 67	GDL-GR 67	Al. Ca. Na. Silicate, TiO_2, Silica	10 - 150 µm
Diamond Variable OB 67	GDL-OB 67	Al. Ca. Na. Silicate, TiO_2, Silica	10 - 150 µm
Diamond Variable YV 67	GDL-YV 67	Al. Ca. Na. Silicate, TiO_2, Silica	10 - 150 µm
Diamond Variable YG 47	GDL-YG 47	Al. Ca. Na. Silicate, TiO_2, Iron Oxides, Silica	10 - 150 µm
Diamond Variable BG 64	GDX-BG 64	Al. Ca. Na. Silicate, TiO_2, Silica	20 - 500 µm
Diamond Variable OB 64	GDX-OB 64	Al. Ca. Na. Silicate, TiO_2, Silica	20 - 500 µm
Diamond Variable GV 64	GDX-GV 64	Al. Ca. Na. Silicate, TiO_2, Silica	20 - 500 µm
Diamond Variable YV 64	GDX-YV 64	Al. Ca. Na. Silicate, TiO_2, Silica	20 - 500 µm
Diamond Variable YG 44	GDX-YG 44	Al. Ca. Na. Silicate, TiO_2, Iron Oxides, Silica	20 - 500 µm

COLOR VARIABLE PIGMENTS

Diamond Variable
CR 27 10 - 150 µm

Diamond Variable
GR 27 10 - 150 µm

Diamond Variable
GV 27 10 - 150 µm

Diamond Variable
GR 24 20 - 500 µm

Diamond Variable
OM 24 20 - 500 µm

Diamond Variable
SO 24 20 - 500 µm

Diamond Variable
YC 24 20 - 500 µm

Product	Code	INCI	Particle Size
Diamond Variable CR 27	GDL-CR 27	Al. Ca. Na. Silicate, Iron Oxides, Silica	10 - 150 µm
Diamond Variable GR 27	GDL-GR 27	Al. Ca. Na. Silicate, Iron Oxides, Silica	10 - 150 µm
Diamond Variable GV 27	GDL-GV 27	Al. Ca. Na. Silicate, Iron Oxides, Silica	10 - 150 µm
Diamond Variable GR 24	GDX-GR 24	Al. Ca. Na. Silicate, Iron Oxides, Silica	20 - 500 µm
Diamond Variable OM 24	GDX-OM 24	Al. Ca. Na. Silicate, Iron Oxides, Silica	20 - 500 µm
Diamond Variable SO 24	GDX-SO 24	Al. Ca. Na. Silicate, Iron Oxides, Silica	20 - 500 µm
Diamond Variable YC 24	GDX-YC 24	Al. Ca. Na. Silicate, Iron Oxides, Silica	20 - 500 µm

USAGE GUIDE

Approved for use in ■ Americas ▲ EU ● Asia

Conditionally approved in selected countries ■ Americas ▲ EU ● Asia

Not approved for use in ■ Americas ▲ EU ● Asia

Category	Product	Code	Eye			Lip			Face			Nail			Personal Care		
WHITE/SILVER PIGMENTS	please refer to **page1** for a full list of white silicate pearl pigments		■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
INTERFERENCE PIGMENTS	please refer **page3** for a full list of interference pearl pigments		■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
GOLD PIGMENTS	please refer to **page5** for a full list of interference pearl pigments		■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
METALLIC PIGMENTS	Glamour Flashy Copper	G5232	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Glamour Neon Copper	G4232	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	please refer to **page5** for a full list of metallic pearl pigments		■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
RED/PINK/PURPLE PIGMENTS	Glamour Classic Hot Pink	G7164	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Glamour Classic Bubble Gum	G7122	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Glamour Tropic Red	G8429R	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Glamour Milky Way	G8439VB	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Glamour Flashy Pink	G5262	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Glamour Flashy Purple	G5192	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Glamour Hot Pink	G7174	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Glamour CF Deep Pink	G7064	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Glamour CF Hot Pink	G7074	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Glamour CF Rose Gold	G3174S	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Glamour Neon Pink	G4262	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Glamour Neon Purple	G4192	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Glamour Bubble Gum Pink	G4212	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Glamour Carmine Pink	G4222	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
YELLOW/ORANGE PIGMENTS	Glamour Glowing Yellow	G8212	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Glamour Rainbow Saffron	G5064	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Glamour Creamsicle	G5364	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Glamour Flashy Orange	G5172	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Glamour Flashy Yellow	G5152	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Glamour Neon Yellow	G4202	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Glamour Neon Orange	G4172	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
BLUE PIGMENTS	Glamour Briliant Blue	G7884	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Glamour Glowing Blue	G8252	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Glamour Classic Lucky Blue	G7664	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Diamond Light Blue	GCX-4405	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Diamond Sky Blue	GCX-4425	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
GREEN PIGMENTS	Glamour Glowing Green	G8362	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Glamour Flashy Emerald	G5352	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Glamour Neon Emerald	G4352	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Diamond Yellowish Green	GCX-4431	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
BLACK/GRAY PIGMENTS	Glamour Classic Sky Grey	G9464	■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
DUO CHROME PIGMENTS	Glamour Classic R/B; R/V; R/Y		■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Glamour Classic B/G; B/V; B/Y		■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
	Glamour CF P-B; CF P-Y; CF Rose Gold		■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●
COLOR VARIABLE PIGMENTS	please refer to **page9-12** for a full list of color travel pearl pigments		■	▲	●	■	▲	●	■	▲	●	■	▲	●	■	▲	●

*Usage Guide Statement: The information included in this usage guide is given in good faith and represents our best present state of knowledge but is offered without any guarantee or warranty. It is your responsibility to confirm this information with your regulatory department. *There are no particle size limitations when using Silicates based pigments.

SANDREAM SPECIALITIES - COMPLETE PRODUCT PORTFOLIO

Color Effect	White/Silver	Interference	Color	Color Travel	Dispersion
Mica Based Pearl Series					
Chromatique	V		V		
DP/TC	V	V	V		
Eldorado			V		
Gemini				V	
Impact	V				
Majestic			V		
Marvel		V	V		
MicaMira					
Midnight			V		
Mystic			V		
Optique		V			
Glass Based Pearl Series					
Diamond	V	V	V	V	
Glamour	V	V	V		
GlassMira				V	
Synthetic Fluorphlogopite Based Series					
Fiesta	V	V	V	V	
Sachet	V	V	V		
Smokey			V		
SynMira				V	
Aluminum Based Series					
SDI Duo			V		
Silver Coated Glass					
Sterling	V				
Silica Color Variable					
SilikMira				V	
SG Series					
SG Black Diamond	V				
Glitters & Holographic Series					
Spectra	V		V	V	
Confetti	V		V		
Laser Effect Color Variable					
Fantasy	V		V	V	
Bismuth Oxychloride					
Biluna	V				
Bichroma			V		
Powders and Fillers					
Powders and Fillers	V		V		
Naturally Dispersed Pigment Series					
Olivsperse					V
Other Pigments					
Carmine			V		
Pigments and Lakes	V				

April 2023

373 RT. 46 W, Building E
Fairfield, NJ
07004, U.S.A.

O +1 973.882.3077
F +1 973.882.3088

www.sandreamspecialties.com
info@sandreamspecialties.com

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