Surface Treatment Technology
Sensient Cosmetic Technologies

Dyes, Pigments, Pigment dispersions, Pearls, Surface treatments applied on pigments and pearls... As a primary manufacturer of certified dyes and pigments and enjoying the successful color expertise of Sensient group, we offer globally compliant color, specially blending surface treatments, specialty milling and pigment dispersions to satisfy your most demanding individual requirements.

EXPERTISE IN COLORS

Consistent quality
All manufactured batches undergo rigorous testing to guarantee consistency, purity and reliability, to ensure our products meet our customers’ strict demands.

Regulatory support
With our knowledge of cosmetic ingredient regulations, use limits and labeling requirements, we assist customers with manufacturing and product development needs.

Technical expertise and Application Laboratories
Our well-equipped technical service laboratories are staffed by experienced cosmetic technologists available to assist you in all technical needs. We promise efficient, accurate and innovative solutions to your most pressing development questions.

Customer service
Our customer department provides fast and courteous responses to pricing, availability and order tracking. We constantly stand by our customers’ side with:

- Innovation
- Technical expertise
- Formulation development

Contact our sales team to enjoy our innovations and high performance products.

For more details about the products or technical support, please contact our sales department:

Sensient Cosmetic Technologies
35310 Saint Ouen, L’Amandiere, Phone: +33 1 34 64 44 40, Fax: +33 1 34 64 44 40
USA, 107 Wade Avenue, South Plainfield, NJ 07080-1311, Phone: +1 908 757 4500, Fax: +1 908 757 3170
www.sensient-cosmetics.com - email: contact@sensient-cosmetics.com

Surface treatment technology

Selection of the proper surface treatment is critical in color cosmetic formulations. Sensient Cosmetic Technologies surface treatments enable ease of formulation with improved stability while improving pigment performance, wearability and feel. Sensient surface treatments are applied through a proprietary particle manipulation technology ensuring the highest degree of particle coverage and optimized consistency. A wide range of treatments produces a variety of choices in formulating color cosmetics with enhanced product attributes.

<table>
<thead>
<tr>
<th>Surface Treatment lines</th>
<th>INCI</th>
<th>Main Properties</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS Alky Silane</td>
<td>Teococtyloxydilacone</td>
<td>Excellent hydrophobicity Easy dispersibility in oils and silicones Improved adhesion &amp; wear resistance Moves fluid and bright high solid dispersion</td>
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<tr>
<td>COVOSIL 605 Silicone</td>
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<td>ADT-C Advanced Dispersion Technology</td>
<td>Isopropyl Trichloroacetate</td>
<td>Excellent hydrophobicity Allows very high pigment load in liquid W/O emulsions Consistent color dispersion Increased affinity and adhesion to the skin and the hair</td>
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<td>FHP Fluor. High Purity</td>
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<td>Both hydrophobic and lipophobic properties Easy dispersibility in silicone oils Suitable for long lasting make up PFOA-free &amp; PFOS-free*</td>
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<td>Good hydrophobicity, water resistance Soft and creamy skin feel Dry to touch Moves for a reduced binder content</td>
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<td>SGP Sodium C20-24 phosphates</td>
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* [PFOA] & [PFOS]: below the detection limit based on the Sensient’s method 10-224.

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**EXPERTISE IN COLORS**

- Color expertise of Sensient group, we offer globally compliant colors, specialty blending, surface treatments, specialty milling and pigment dispersions.
- As a primary manufacturer of certified dyes and pigments, Sensient enjoys the successful range of treatments producing a variety of choices in formulating color cosmetics with enhanced product attributes.

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### Covasil 4.05

**Hybrid Silicone Coating**

**Composition**
- INCI name: Dimethicone (and) Trimethylsilylcoctate
- CAS No.: 9006-65-9, 887885-56-7
- EINECS No.: ..., ...
- Approved for EU, USA, Japan and China.

**Key Features**
- Shear resistant coating
- Mechanically deposited
- Hybrid coating for lamellar particles only

**Key Properties**
- Good hydrophobicity
- Hybrid coating for lamellar particles only
- Silky feel
- No hydrogen potential

**Main Applications**
1. Powders: Pressed or loose powders & Two-way cake
2. Two-way cake

### AS

**Alkyl Silane**

**Composition**
- INCI name: Triethoxyxycaprylylsilane
- CAS No.: 2943-75-1
- EINECS No.: 220-941-2
- Approved for EU, USA, Japan and China.

**Key Features**
- Shear resistant coating
- Chemically bound

**Key Properties**
- Excellent hydrophobicity
- Easy dispersibility in oils and silicones (at over 50% solids)
- Allows fluid and bright high solid dispersion
- Improved adhesion & wear resistance

**Main Applications**
1. W/O and W/Si emulsions
2. Powders: Pressed or loose powders & Two-way cake
3. Mousse
4. Waterproof mascaras
5. Long lasting lipstick / lipgloss
6. Cream in powder form.

**Other applications and concepts could be found. For more details on innovative formulations and technical advices, ask for our formulation concept document.**

### Mineral pigments
- UNIPURE YELLOW LC 182 AS-EM
- UNIPURE RED LC 381 AS-EM
- UNIPURE RED LC 386 AS-EM
- UNIPURE GREEN LC 785 AS-EM
- UNIPURE BLACK LC 987 AS-EM

**Organic pigments**
- UNIPURE YELLOW LC 125 AS
- UNIPURE RED LC 304 AS
- UNIPURE RED LC 3075 AS
- UNIPURE BLUE LC 621 AS

**Fillers**
- MICA 8 AS R0433
- SERICITE AS R0434
- TALC AS R0435

**Pearls**
- COVAPEARL RICH GOLD 230 AS
- COVAPEARL DUNE GOLD 232 AS
- COVAPEARL ANTIQUE 23 AS
- COVAPEARL SPARKLING GOLD 238 AS
- COVAPEARL ANTIQUE SILVER 239 AS
- COVAPEARL FRED 33 A5
- COVAPEARL RED 339 AS
- COVAPEARL PINK 433 AS
- COVAPEARL PURE CARMAINE 436 AS
- COVAPEARL BLUE 639 AS
- COVAPEARL DARK BLUE 637 AS
- COVAPEARL GREEN 536 AS
- COVAPEARL LIGHT BROWN 630 AS
- COVAPEARL BROWN 635 AS
- COVAPEARL SATIN 931 AS
- COVAPEARL BRIGHT 933 AS
- COVAPEARL BLACK NIGHT 934 AS
- COVAPEARL SPARKLING SILVER 937 AS
- COVAPEARL SILVER 939 AS

**Synthetic pearls**
- COVAPEARL STAR GOLD 2302 AS
- COVAPEARL STAR LIGHT DUNE 2335 AS
- COVAPEARL STAR DUNE 2375 AS
- COVAPEARL STAR COPPER 3322 AS
- COVAPEARL STAR LIGHT RED 3339 AS
- COVAPEARL STAR RED 3379 AS
- COVAPEARL STAR LIGHT VIOLET 5331 AS
- COVAPEARL STAR VIOLET 5371 AS
- COVAPEARL STAR LIGHT BLUE 5335 AS
- COVAPEARL STAR BLUE 6370 AS
- COVAPEARL STAR LIGHT GREEN 7337 AS
- COVAPEARL STAR GREEN 7377 AS
- COVAPEARL STAR BLACK 8302 AS
- COVAPEARL STAR BRIGHT 9332 AS
- COVAPEARL STAR SILVER 9372 AS

**Cosmetic ingredients**
- MATLAKE OPA AS
- OXYDE DE ZINC MICROPUR AS

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- 7-9 rue de l’Industrie, 95310 Saint Ouen L’Aumône, Phone: +33 1 34 48 57 00, Fax: +33 1 34 64 44 40

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www.sensient-cosmetics.com - email: contact@sensient-cosmetics.com
### Composition
INCI name: Isopropyl Titanium Triisostearate (and) Bis-PEG-15 Dimethicone / PDI Copolymer (and) PEG-2 Soyamine
CAS No.: 61417-49-0, 222416-17-3, 61971-24-0, 4058-71-9
EINECS No.: 262-774-8, 223-861-4...
Approved for EU, USA, China, Japan.

### Key Properties
- Excellent hydrophobicity
- Allows very high pigment load in liquid W/O emulsions
- Consistent color dispersion
- Increased affinity and adhesion to the skin and the hair
- Higher gloss in lip color application

### Main Applications
1. W/O and W/Si emulsions
2. Powders: Pressed or loose powders & Two-way cake
3. Lip color
4. Mascaras

Other applications and concepts could be found. For more details on innovative formulations and technical advices, ask for our formulation concept document.

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### Composition
INCI name: Ammonium C6-16 Perfluoroalkylethyl Phosphate
CAS No.: 63330-71-4
EINECS No.: Polymer
Approved for EU, USA, Japan and China.

### Key Features
- Shear resistant coating
- Chemically deposited
- PFOA-free & PFOS-free*: meet the goals of the U.S. Environmental Protection Agency 2010/15 PFOA Stewardship program.

### Key Properties
- Both hydrophobic and lipophobic properties
- Good resistance to acid and alkali conditions
- Soft feeling
- Easy dispersibility in silicone oils
- Suitable for long lasting make up resilient to perspiration and sebum

### Main Applications
1. W/O and W/Si emulsions
2. Powders: Pressed or loose powders & Two-way cake
3. Long lasting lipsticks
4. Anhydrous products
5. Cream in powder form.

Other applications and concepts could be found. For more details on innovative formulations and technical advices, ask for our formulation concept document.

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*PFOA & PFOS: below the detection limit based on the Sensient’s method 10-224.
NLL
N-Lauroyl L-lysine

Composition
INCI name : Lauroyl Lysine
CAS No. : 52315-75-0
EINECS No. : 243-834-4
Approved for EU, USA, Japan and China.

Key Features
- Shear resistant coating
- Mechanically deposited
- Natural surface treatment

Key Properties
- Excellent hydrophobicity
- Good dispersibility in oils
- Lower oil absorption compared to untreated powder
- Provides a creamy and soft skin feel

Main Applications
1. Powders : Pressed or loose powders & Two-way cake
2. Face and eyes make-up

Other applications and concepts could be found. For more details on innovative formulations and technical advice, ask for our formulation concept document.

HLC
Hydrogenated Lecithin

Composition
INCI : Hydrogenated Lecithin
CAS No. : 92128-87-5
EINECS No. : 295-786-7
Approved for EU, USA, Japan and China.

Key Features
- Shear resistant coating
- Chemically deposited
- Ecocert standard compliant

Key Properties
- Good hydrophobicity
- Easy dispersibility in oils – No grinding or milling
- Excellent affinity for the skin due to its amino acid nature
- Imparts a smooth, lubricious and creamiest feel
- Imparts excellent stability in emulsion formulations

Main Applications
1. W/O & W/SI emulsions
2. Powders : Pressed or loose powders & Two-way cake
3. Anhydrous products
4. Skin care & Natural concept.

Other applications and concepts could be found. For more details on innovative formulations and technical advice, ask for our formulation concept document.
**NFW Rose CF**
**Natural Rose Flower Wax - Candelilla-Free grade**

**Composition**
INCI: Rosa Centifolia Flower Extract (and) Rosa Damascena Flower Wax (and)
Cera Alba
CAS No.: 84604-1206, 903-06-38-0, 8006-44-4, 8006-40-4
Approved for EU, USA, Japan and China.

**Key Features**
- Shear-resistant coating
- Mechanically deposited
- Eco-cert standard compliant

**Key Properties**
- Good hydrophilicity
- Good dispersibility in oil phase
- Lower oil absorption
- Water resistance
- Soft and creamy skin feel
- Allows a reduced binder content

**Main Applications**
1. Natural powders
2. Natural anhydrous products
3. W/O emulsions

**Other applications and concepts could be found. For more details on innovative formulations and technical advices, ask for our formulation concept document.**

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**GCA**
**Glutamrate Cystine Arginine**

**Composition**
INCI Name: Sodium Cocoyl Glutamate (and) L-Cystine (and) Laurus Arginine
CAS No.: 68187-32-6 / 56-89-3 / 42492-22-8
Approved for EU, USA, Japan and China.

**Key Features**
- Revolutionary concept of natural hair coloring formulation
- Optimized balance of triple amino-acid treatment to bring superior affinity to keratin with long lasting result compared to non treated pigment
- Ecocert compliant

**Key Properties**
- Easy dispersible in oil – Milling free solution
- Semi-permanent hair coloring application
- Make-up application
- Patented technology

**Main Applications**
1. Hair Color
2. Make-up

**Other applications and concepts could be found. For more details on innovative formulations and technical advices, ask for our formulation concept document.**

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www.sensient-cosmetics.com - email: contact@sensient-cosmetics.com
SGP Sodium Glycerophosphate

**Composition**
- INCI: Sodium glycerophosphate
- CAS No.: 1334-74-3
- EINECS No.: 1,2,3-Propanetriol monodihydrogen phosphate disodium salt
- Approved for EU, USA & Japan

**Key Features**
- Natural origin
- Eco-friendly in make-up products only
- Patented technology

**Key Properties**
- Easy dispersibility - Milling free
- Sheep-resistant coating
- Hydrophilic properties - Higher affinity for the water phase
- Enhanced stability in water gels or O/W emulsions
- Moisturizing - Water retention

**Main Applications**
1. O/W emulsions
2. Water-based gels
3. Make-up (BB creams...)
4. Skin care

Other applications and concepts could be found. For more details on innovative formulations and technical advices, ask for our formulation concept document.

AQ Dimethicone Copolyol

**Composition**
- INCI: PEG-12 Dimethicone
- CAS No.: 68937-54-2
- EINECS No.: Polymer
- Approved for EU, USA, Japan and China

**Key Features**
- Shear-resistant coating
- Chemically bound

**Key Properties**
- Easy to introduce in water-based systems
- Excellent dispersibility - no agglomeration - low stirring time required
- Lower water absorption - allow higher pearl content without viscosity increase
- Highly compatible with anionic thickeners and surfactants. For aqueous bases & O/W emulsions
- Reduction of Glycol distearate and carbomer
- Reduction of time of process
- Improved stability

Sensient's solution to increase pearly effect

**Main Applications**
1. For skin care
   - Provides optical effect to skin care without glittering: more natural illuminating effect
2. For make-up
   - Enhances pearly finish
   - Better deposition on skin
   - Long-lasting. Better resistance to shear
3. For hair care
   - New generation of textures from pearlized to glittering
   - No negative effect of EGDS used at 5%, bad hair feel
   - Use at only 0.1%

Other applications and concepts could be found. For more details on innovative formulations and technical advices, ask for our formulation concept document.

Mineral pigments

**UNIPURE YELLOW LC 182 SGP**
**UNIPURE RED LC 381 SGP**
**UNIPURE BLACK LC 989 SGP**
**UNIPURE WHITE LC 981 SGP**

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**Green inspiration by Sensient**

**Non treated red iron oxide**

**Unipure Red LC 381 SGP**

**Mineral pigments**

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<th>AOT-C</th>
<th>FPH</th>
<th>HLP</th>
<th>HLC</th>
<th>NF40 Rose CF</th>
<th>CCA</th>
<th>SCP</th>
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### Surface modification

- **Hydrophilic substances**
- **Hydrophobic substances**
- **Water resistance**
- **Skin compatibility**
- **Long wear**