

# GRANSENSE<sup>TM</sup>

NEXT GENERATION ELASTOMERS

Bio-based materials for  
new formulating possibilities



**GRANT INDUSTRIES**  
*Where Performance Matters*

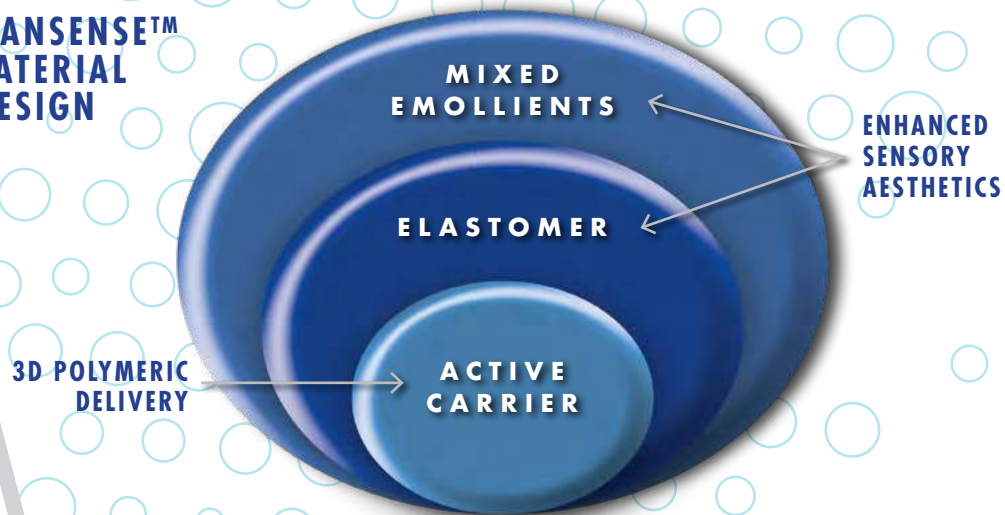
FOLLOW US ON



Instagram @grant.industries

Introducing **GRANSENSE™** a series of next generation elastomer gels designed for new formulating possibilities. Engineered to give the formulator new options to meet project requirements our line of **GRANSENSE™** elastomers offer unique performance benefits including enhanced compatibility with polar materials such as natural oils and organic sunscreens. These patent pending bio-based materials are available as silicone hybrid and natural elastomers to meet various marketing trends. **GRANSENSE™** elastomers can be formulated into all cosmetic applications including anhydrous systems, sunscreens, O/W and W/O emulsions, and even powders.

### GRANSENSE™ MATERIAL DESIGN



### HYBRID SILICONE/POLYGLYCERYL ELASTOMER

**GRANSENSE™ CU-115:** Undecane (and) Tridecane (and) Dimethicone/Polyglyceryl-2 Dioleate Crosspolymer

**Material description:** Soft moisturizing feel with short playtime and nice slip

- ISO 16128 value: 0.885
- Biodegradability OECD 301B: Inherent Biodegradability
- USDA BioPreferred (ASTM D6866 C14): Yes
- Cosmos approval: No

### 100% NATURAL POLYESTER ELASTOMERS

**GRANSENSE™ TC-11X:** Triheptanoin (and) Coco-Caprylate/Caprate (and) Polyurethane-100

**Material description:** Low viscosity, soft moisturizing feel with enhanced playtime and luminous appearance

- ISO 16128 value: 1.00
- Biodegradability OECD 301B: Inherent Biodegradability
- USDA BioPreferred (ASTM D6866 C14): Yes
- Cosmos approval: Yes

**GRANSENSE™ TC-8X:** Coco-Caprylate/Caprate (and) Triheptanoin (and) C9-12 Alkane (and) Polyurethane-100

**Material description:** Soft moisturizing feel with enhanced playtime and luminous appearance

- ISO 16128 value: 1.00
- Biodegradability OECD 301B: Inherent Biodegradability
- USDA BioPreferred (ASTM D6866 C14): Yes
- Cosmos approval: Yes

## COMPATIBILITY SPECTRUM

Silicone elastomer gel  
(GRANSIL DM-5)

Hybrid elastomer gel  
(GRANSENSE CU-115)

Natural elastomer gel  
(GRANSENSE TC-8X)

Degradable

Biodegradable



Silicones, hydrocarbons

Natural oils, organic sunscreens, esters

**DID YOU KNOW?** In the environment silicones evaporate rapidly and degrade in air under the influence of sunlight. The small amounts that find their way into water are so insoluble that they complete the cycle by partitioning over to soil where they will degrade by reversion back to sand. There is confusion between degradability and biodegradability. Silicones are not biodegradable, however they are degradable by acidic sediment and UV/O<sub>2</sub> chemistry present in the environment, this is why degradation of silicones via only bio-organisms is not a relevant endpoint and often leads one to assume they build up in the environment, contrary to actual measurements.

### Ref:

- **Degradable:** relating to a compound that breaks down into simpler compounds by stages.
- **Biodegradable:** capable of being decomposed by the action of biological agents, especially bacteria.

### Test method definitions:

- ISO 16128-2:2017 describes approaches to calculate natural, natural origin, organic and organic origin indexes that apply to the ingredient categories.
- Biodegradability (OECD 301B) uses respirometry to determine biodegradability of the material by evaluating the production of CO<sub>2</sub> over a minimum of 28 days in a liquid environment.
- USDA BioPreferred (ASTM D6866 C14) determines the biobased carbon/biogenic carbon content of solid, liquid, and gaseous samples using radiocarbon analysis.
- Cosmos standard is a harmonized certification to define common requirements and definitions for organic and/or natural cosmetics by the effort of COSMOS-standard AISBL.

### Performance features and benefits:

- Patent pending bio-based technologies
- Enhanced sensory aesthetics and skin feel
- Compatibility with natural oils and polar-friendly materials
- Natural and Cosmos formulations
- Suggested use level of 5-95% application dependent
- Skin care, color cosmetics, body care, sun care, hair care



# Finish product packaging suggestions:

The organic portion of **GRANSENSE™** elastomers may migrate to surface of the plastic and behave as a plasticizer altering the shape of the packaging as well as finish product performance; to avoid this phenomena it is recommended to use glass packaging or co-extruded thick wall polyester, polyethylene terephthalate or phenolic type plastics when applicable.

## COMPATIBILITY CHART

|              |    |                    |
|--------------|----|--------------------|
| Compatible   | C  | Clear              |
|              | T  | Translucent        |
|              | H  | Homogeneous        |
| Dispersible  | HD | Hazy/Dispersible   |
|              | OD | Opaque/Dispersible |
|              | Cr | Crystals           |
| Incompatible | I  | Incompatible       |

### POLAR

| Compatibility Spectrum |                 | Glycerin | Butylene Glycol | Propylene Glycol | Ethanol | Dibutyl Adipate | Dicaprylyl Ether | Octyldodecanol | Jojoba Oil | Castor Oil | Isononyl Isononanoate | Coco-Caprylate/Caprate | Isostearyl Palmitate | Octyl Palmitate | Propylene Glycol Dicaprylate/Dicaprate | Caprylic/Capric Triglyceride | C12-15 Alkyl Benzoate | Butyl Lactate | Triheptanoin | Oleyl Lactate | C12-13 Alkyl Lactate | Octocrylene | Ethylhexyl Methoxycinnamate | Ethylhexyl Salicylate | Homosalate | Avobenzene |
|------------------------|-----------------|----------|-----------------|------------------|---------|-----------------|------------------|----------------|------------|------------|-----------------------|------------------------|----------------------|-----------------|----------------------------------------|------------------------------|-----------------------|---------------|--------------|---------------|----------------------|-------------|-----------------------------|-----------------------|------------|------------|
| GRANSENSE TC-8X        | 1:1             | OD       | I               | OD               | I       | OD              | I                | OD             | I          | OD         | OD                    | OD                     | I                    | OD              | OD                                     | OD                           | OD                    | HD            | OD           | OD            | HD                   | OD          | HD                          | OD                    | HD         | Cr         |
|                        | 9:1             | I        | I               | I                | I       | HD              | I                | I              | I          | HD         | I                     | HD                     | I                    | I               | HD                                     | I                            | T                     | I             | I            | I             | I                    | OD          | T                           | I                     | I          | Cr         |
| GRANSIL DM-5           | 1:1             | OD       | I               | I                | I       | OD              | I                | I              | I          | I          | T                     | OD                     | OD                   | OD              | OD                                     | OD                           | OD                    | OD            | OD           | I             | OD                   | I           | I                           | OD                    | OD         | I          |
|                        | 9:1             | I        | I               | I                | I       | I               | I                | I              | I          | I          | HD                    | I                      | I                    | I               | I                                      | I                            | I                     | I             | I            | I             | I                    | I           | I                           | I                     | I          | I          |
|                        | Fluid:Elastomer |          |                 |                  |         |                 |                  |                |            |            |                       |                        |                      |                 |                                        |                              |                       |               |              |               |                      |             |                             |                       |            |            |

### NON-POLAR

| Compatibility Spectrum |     | Cyclotetrasiloxane | Cyclopentasiloxane | Cyclohexasiloxane | Dimethicone, 5 CSt | Coconut Alkanes | Isododecane | Undecane (and) Tridecane | Polybutene | Olive Squalane |
|------------------------|-----|--------------------|--------------------|-------------------|--------------------|-----------------|-------------|--------------------------|------------|----------------|
| GRANSENSE TC-8X        | 1:1 | I                  | I                  | I                 | I                  | I               | I           | I                        | I          | I              |
|                        | 9:1 | I                  | I                  | I                 | I                  | I               | I           | I                        | I          | I              |
| GRANSIL DM-5           | 1:1 | HD                 | HD                 | HD                | HD                 | C               | C           | C                        | OD         | I              |
|                        | 9:1 | T                  | T                  | T                 | T                  | I               | C           | I                        | I          | I              |
| Fluid:Elastomer        |     |                    |                    |                   |                    |                 |             |                          |            |                |

### WAXES

| Compatibility Spectrum |     | Polyethylene Wax | Microcrystalline Wax | Paraffin Wax | Cetyl Alcohol | Stearyl Alcohol | Beeswax | Candelilla Wax | Carnauba Wax |
|------------------------|-----|------------------|----------------------|--------------|---------------|-----------------|---------|----------------|--------------|
| GRANSENSE TC-8X        | 1:1 | H                | Cr                   | Cr           | Cr            | Cr              | H       | H              | Cr           |
|                        | 9:1 | Cr               | Cr                   | Cr           | Cr            | Cr              | Cr      | Cr             | Cr           |
| GRANSIL DM-5           | 1:1 | H                | H                    | H            | Cr            | Cr              | H       | H              | H            |
|                        | 9:1 | H                | H                    | I            | Cr            | Cr              | I       | Cr             | I            |
| Fluid:Elastomer        |     |                  |                      |              |               |                 |         |                |              |

## NATURAL-ME-TIME MILKY SERUM

| Phase    | Ingredient                | INCI                                                                    | %      |
|----------|---------------------------|-------------------------------------------------------------------------|--------|
| <b>A</b> | DEIONIZED WATER           | Water                                                                   | 59.35  |
|          | XANTHAN GUM               | Xanthan Gum                                                             | 0.50   |
|          | GLYCERIN                  | Glycerin                                                                | 4.00   |
|          | LEXGARD NATURAL MB        | Glyceryl Caprylate & Glyceryl Undecylenate                              | 1.50   |
|          | SODIUM BENZOATE           | Sodium Benzoate                                                         | 0.15   |
| <b>B</b> | <b>GRANSENSE TC-8X</b>    | Coco-Caprylate/Caprate & Triheptanoin & C9-12 Alkane & Polyurethane-100 | 15.00  |
|          | COVI-OX T-90 EU C         | Tocopherol                                                              | 1.00   |
|          | IMWITOR 375               | Glyceryl Citrate/Lactate/Linoleate/Oleate                               | 5.50   |
|          | MACADAMIA NUT OIL         | Macadamia Ternifolia Seed Oil                                           | 7.00   |
|          | RITA SAO                  | Prunus Amygdalus Dulcis (Sweet Almond) Oil                              | 2.00   |
|          | <b>GRANPOWDER BBP-700</b> | Saccharomyces Ferment & Lauryl Lysine                                   | 4.00   |
|          | Total:                    |                                                                         | 100.00 |

Procedure:

1. Weigh Phase A in the main kettle equipped with homogenizer. Mix until uniform.
2. Weigh Phase B in the side kettle equipped with side sweep. Mix until uniform.
3. Add Phase B to the main kettle and mix until uniform.

G105-417.02

## NATURAL-ME-TIME NIGHT CREAM

| Phase    | Ingredient             | INCI                                                                    | %      |
|----------|------------------------|-------------------------------------------------------------------------|--------|
| <b>A</b> | <b>GRANSENSE TC-8X</b> | Coco-Caprylate/Caprate & Triheptanoin & C9-12 Alkane & Polyurethane-100 | 15.00  |
|          | <b>GRANSURF PG-14</b>  | Polyglyceryl-6 Polyricinoleate & Polyglyceryl-10 Dioleate               | 4.00   |
|          | FLUIDANOV 20X          | Octyldodecanol & Octyldodecyl Xyloside                                  | 2.50   |
|          | DEHYMULS PGPH          | Polyglyceryl-2 Dipolyhydroxystearate                                    | 2.00   |
|          | COVI-OX T-90 EU C      | Tocopherol                                                              | 1.00   |
|          | COCONUT OIL            | Cocos Nucifera (Coconut) Oil                                            | 6.00   |
|          | PHYTOLANE LS           | Olive Squalane                                                          | 6.00   |
|          | MYRITOL 312            | Caprylic/Capric Triglyceride                                            | 10.00  |
| <b>B</b> | DEIONIZED WATER        | Water                                                                   | 46.80  |
|          | BENTONE HYDROCLAY 2000 | Hectorite                                                               | 1.00   |
|          | SOLAGUM AX             | Acacia Senegal Gum & Xanthan Gum                                        | 0.10   |
|          | GLYCERIN               | Glycerin                                                                | 3.00   |
|          | SODIUM CHLORIDE        | Sodium Chloride                                                         | 1.00   |
|          | EUXYL K 903            | Benzyl Alcohol & Benzoic Acid & Dehydroacetic Acid                      | 1.00   |
|          | <b>C</b> AEROSIL 200   | Silica                                                                  | 0.60   |
| Total:   |                        |                                                                         | 100.00 |

Procedure:

1. Weigh Phase A in the main kettle equipped with homogenizer. Mix until uniform.
2. From Phase B, combine Glycerin and Bentone Hydroclay 2000 in a side kettle to make a slurry.
3. From Phase B, weigh Deionized Water in a side kettle equipped with propeller and heat to 40-45°C. Add slurry and mix until uniform.
4. Add rest of ingredients from Phase B sequentially to the side kettle. Mix until uniform.
5. Add Phase B to the main kettle. Mix until uniform.
6. Add Phase C to the main kettle. Mix until uniform.
7. Switch to side sweep and perform a finishing step.

G105-419.03

## NATURAL-ME-TIME HYDRO SERUM

| Phase    | Ingredient                | INCI                                                                    | %      |
|----------|---------------------------|-------------------------------------------------------------------------|--------|
| <b>A</b> | DEIONIZED WATER           | Water                                                                   | 60.55  |
|          | XANTHAN GUM               | Xanthan Gum                                                             | 0.30   |
|          | GLYCERIN                  | Glycerin                                                                | 5.00   |
|          | HAISUGARCANE BG           | Butylene Glycol                                                         | 1.50   |
|          | LEXGARD NATURAL MB        | Glyceryl Caprylate & Glyceryl Undecylenate                              | 1.50   |
| <b>B</b> | SODIUM BENZOATE           | Sodium Benzoate                                                         | 0.15   |
|          | EMULGADE SUCRO PLUS       | Sucrose Polystearate & Cetyl Palmitate                                  | 4.00   |
|          | <b>GRANSENSE TC-8X</b>    | Coco-Caprylate/Caprate & Triheptanoin & C9-12 Alkane & Polyurethane-100 | 15.00  |
|          | COVI-OX T-90 EU C         | Tocopherol                                                              | 1.00   |
|          | CETIOL CC                 | Dicaprylyl Carbonate                                                    | 6.00   |
|          | CETYL ALCOHOL             | Cetyl Alcohol                                                           | 1.50   |
|          | EUMULGIN SG               | Sodium Stearoyl Glutamate                                               | 0.50   |
| <b>C</b> | <b>GRANPOWDER BBP-700</b> | Saccharomyces Ferment & Lauryl Lysine                                   | 3.00   |
|          | Total:                    |                                                                         | 100.00 |

Procedure:

1. Combine Phase A in the main kettle equipped with homogenizer and heat to 60-65°C. Mix until uniform.
2. Combine Phase B in the side kettle equipped with propeller and heat to 60-65°C. Mix until uniform.
3. Add Phase B to the main kettle and mix until uniform.
4. Add Phase C to the main kettle and mix until uniform.
5. Switch to side sweep and cool down to room temperature.

G105-418.02

## NATURAL-ME-TIME DAY CREAM

| Phase    | Ingredient             | INCI                                                                                                                                                                                                                                                                                | %      |
|----------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| <b>A</b> | DEIONIZED WATER        | Water                                                                                                                                                                                                                                                                               | 49.30  |
|          | ROYAL TEA IQ*          | Water & Camellia Sinensis (Purple Tea) Leaf Extract & Ipomoea Batatas (Purple Sweet Potato) Root Extract & Oryza Sativa (Purple Rice) Hull Extract & Lactobacillus Ferment Lysate & Saccharomyces Lysate & Hydroxyacetophenone & Sodium Benzoate & 1,2-Hexanediol & Caprylyl Glycol | 3.00   |
|          | XANTHAN GUM            | Xanthan Gum                                                                                                                                                                                                                                                                         | 0.25   |
|          | GLYCERIN               | Glycerin                                                                                                                                                                                                                                                                            | 3.90   |
|          | HAISUGARCANE BG        | Butylene Glycol                                                                                                                                                                                                                                                                     | 1.95   |
| <b>B</b> | LINATURAL ULTRA-3      | Phenethyl Alcohol & Pentylene Glycol & Propanediol                                                                                                                                                                                                                                  | 2.00   |
|          | TIMIRON SUPER GOLD     | Mica & Titanium Dioxide                                                                                                                                                                                                                                                             | 2.00   |
|          | EMULGADE SUCRO PLUS    | Sucrose Polystearate & Cetyl Palmitate                                                                                                                                                                                                                                              | 4.50   |
|          | <b>GRANSENSE TC-8X</b> | Coco-Caprylate/Caprate & Triheptanoin & C9-12 Alkane & Polyurethane-100                                                                                                                                                                                                             | 10.00  |
|          | COVI-OX T-90 EU C      | Tocopherol                                                                                                                                                                                                                                                                          | 1.00   |
|          | IMWITOR 375            | Glyceryl Citrate/Lactate/Linoleate/Oleate                                                                                                                                                                                                                                           | 1.95   |
|          | EUTANOL G              | Octyldodecanol                                                                                                                                                                                                                                                                      | 3.90   |
| <b>C</b> | PROTACHEM CS-70        | Cetearyl Alcohol                                                                                                                                                                                                                                                                    | 4.50   |
|          | SHEA BUTTER            | Butyrospermum Parkii (Shea) Butter                                                                                                                                                                                                                                                  | 9.80   |
|          | CETIOL CC              | Dicaprylyl Carbonate                                                                                                                                                                                                                                                                | 1.95   |
| Total:   |                        |                                                                                                                                                                                                                                                                                     | 100.00 |

Procedure:

1. Combine Phase A in the main kettle equipped with homogenizer and heat to 70-75°C. Mix until uniform.
2. Combine Phase B in the side kettle equipped with propeller and heat to 70-75°C. Mix until uniform.
3. Add Phase B to the main kettle and mix until uniform.
4. Switch to side sweep and cool down to room temperature.

G105-420.02



## NATURAL-ME-TIME SUNSCREEN, SPF-30

| Phase  | Ingredient             | INCI                                                                    | %      |
|--------|------------------------|-------------------------------------------------------------------------|--------|
| A      | UV CUT ZNO-68-CG       | Zinc Oxide & Caprylic/Capric Triglyceride & Polyhydroxystearic Acid     | 22.00  |
|        | GRANSENSE TC-8X        | Coco-Caprylate/Caprate & Triheptanoin & C9-12 Alkane & Polyurethane-100 | 13.00  |
|        | GRANSURF PG-14         | Polyglyceryl-6 Polyricinoleate & Polyglyceryl-10 Dioleate               | 4.00   |
|        | CETIOL LC              | Coco-Caprylate/Caprate                                                  | 7.00   |
|        | MYRITOL 312            | Caprylic/Capric Triglyceride                                            | 12.00  |
|        | PELEMOL PHS-8          | Polyhydroxystearic Acid                                                 | 0.70   |
|        | PHYTOLANE LS           | Olive Squalane                                                          | 5.00   |
|        | COVI-OX T-90 EU C      | Tocopherol                                                              | 1.00   |
|        | DEHYMULS PGPH          | Polyglyceryl-2 Dipolyhydroxystearate                                    | 2.00   |
|        | FLUIDANOV 20X          | Octyldodecanol & Octyldodecyl Xyloside                                  | 2.00   |
| B      | DEIONIZED WATER        | Water                                                                   | 22.15  |
|        | BENTONE HYDROCLAY 2000 | Hectorite                                                               | 0.50   |
|        | ZEMEA                  | Propanediol                                                             | 4.00   |
|        | SODIUM CHLORIDE        | Sodium Chloride                                                         | 1.00   |
|        | LEXGARD NATURAL MB     | Glyceryl Caprylate & Glyceryl Undecylenate                              | 1.50   |
|        | SODIUM BENZOATE        | Sodium Benzoate                                                         | 0.15   |
| C      | GRANPOWDER BBP-700     | Saccharomyces Ferment & Lauroyl Lysine                                  | 2.00   |
| Total: |                        |                                                                         | 100.00 |

Procedure:

1. Weigh Phase A in the main kettle equipped with homogenizer and mix until uniform.
2. From Phase B, combine Zemea and Bentone Hydroclay 2000 in a side kettle to make a slurry.
3. Weigh DI Water from Phase B and heat to 40-45°C. Add slurry and mix until uniform.
4. Add the rest of ingredients from Phase B sequentially to the side kettle. Mix until uniform.
5. Add Phase B to the main kettle and mix until uniform.
6. Add Phase C to the main kettle and mix until uniform.

G105-421.02

## NATURAL-ME-TIME BOUNCE PRIMER

| Phase    | Ingredient                | INCI                                                                    | %     |
|----------|---------------------------|-------------------------------------------------------------------------|-------|
| <b>A</b> | <b>GRANSENSE TC-8X</b>    | Coco-Caprylate/Caprate & Triheptanoin & C9-12 Alkane & Polyurethane-100 | 55.00 |
|          | <b>VEGELIGHT SILK-LC</b>  | Coconut Alkanes & Coco-Caprylate/Caprate                                | 6.00  |
|          | SEBUMOL ODPC              | Octyldodecyl PCA                                                        | 18.00 |
|          | <b>GRANPOWDER BBP-700</b> | Saccharomyces Ferment & Lauroyl Lysine                                  | 6.00  |
|          | TRIHEPTANOIN              | Triheptanoin                                                            | 13.80 |
|          | AEROSIL 200               | Silica                                                                  | 1.20  |
|          | Total:                    | 100.00                                                                  |       |

Procedure:

1. Sequentially add Phase A to the main kettle equipped with side sweep and mix until uniform.

G105-400.03

## NATURAL-ME-TIME BOUNCY CREAM, SPF-50

| Phase    | Ingredient                 | INCI                                                                                               | %     |
|----------|----------------------------|----------------------------------------------------------------------------------------------------|-------|
| <b>A</b> | <b>TRIHEPTANOIN</b>        | Triheptanoin                                                                                       | 19.35 |
|          | EUTANOL G                  | Octyldodecanol                                                                                     | 5.00  |
|          | CETIOL CC                  | Dicaprylyl Carbonate                                                                               | 6.00  |
|          | <b>UV CUT TIO2-55-CG</b>   | Titanium Dioxide & Caprylic/Capric Triglyceride & Stearic Acid & Alumina & Polyhydroxystearic Acid | 11.00 |
|          | <b>UV CUT ZNO-68-CG</b>    | Zinc Oxide & Caprylic/Capric Triglyceride & Polyhydroxystearic Acid                                | 30.00 |
|          | <b>GRANPOWDER BBP-700</b>  | Saccharomyces Ferment & Lauroyl Lysine                                                             | 4.00  |
|          | <b>GRANSENSE TC-8X</b>     | Coco-Caprylate/Caprate & Triheptanoin & C9-12 Alkane & Polyurethane-100                            | 15.00 |
|          | PELEMOL PHS-8              | Polyhydroxystearic Acid                                                                            | 2.50  |
|          | WHITE BEESWAX NF           | Beeswax                                                                                            | 6.00  |
|          | REFINED CANDELLA WAX MD-21 | Euphorbia Cerifera (Candelilla) Wax                                                                | 1.00  |
|          | LEXGARD NATURAL MB         | Glyceryl Caprylate & Glyceryl Undecylenate                                                         | 0.15  |
|          | Total:                     | 100.00                                                                                             |       |

Procedure:

1. Combine Phase A in the main kettle equipped with homogenizer and heat to 65-70°C. Mix until uniform.
2. Switch to side sweep and cool down to room temperature.

G105-389.02

## NATURAL-ME-TIME MOUSSE FOUNDATION

| Phase                  | Ingredient        | INCI                                                                          | %      |
|------------------------|-------------------|-------------------------------------------------------------------------------|--------|
| A                      | CETIOL LC         | Coco-Caprylate/Caprate                                                        | 10.00  |
|                        | ALCOLEC BS        | Lecithin                                                                      | 1.50   |
|                        | GRANSENSE TC-8X   | Coco-Caprylate/Caprate & Triheptanoin & C9-12 Alkane & Polyurethane-100       | 15.00  |
|                        | GRANSURF PG-14    | Polyglyceryl-6 Polyricinoleate & Polyglyceryl-10 Dioleate                     | 8.00   |
|                        | COVI-OX T-90 EU C | Tocopherol                                                                    | 1.20   |
|                        | VEGELIGHT SILK-LC | Coconut Alkanes & Coco-Caprylate/Caprate                                      | 1.00   |
| B                      | NAID-TRI-77891    | Titanium Dioxide(CI 77891) & Disodium Stearoyl Glutamate & Aluminum Hydroxide | 7.20   |
|                        | NAID-YELLOW       | Iron Oxide(CI 77492) & Disodium Stearoyl Glutamate & Aluminum Hydroxide       | 2.10   |
|                        | NAID-RED BLUE     | Iron Oxide(CI 77491) & Disodium Stearoyl Glutamate & Aluminum Hydroxide       | 0.47   |
|                        | NAID-BLACK        | Iron Oxide(CI 77499) & Disodium Stearoyl Glutamate & Aluminum Hydroxide       | 0.19   |
|                        | MEARLMICA CF      | Mica                                                                          | 6.00   |
|                        | C                 | DEIONIZED WATER                                                               | Water  |
| BENTONE HYDROCLAY 2000 |                   | Hectorite                                                                     | 2.00   |
| GLYCERIN               |                   | Glycerin                                                                      | 5.00   |
| HAISUGARCANE BG        |                   | Butylene Glycol                                                               | 3.00   |
| EUXYL ECO 910          |                   | Benzyl Alcohol & Cymbopogon Citratus Leaf Oil & Tocopherol                    | 1.00   |
| SOLAGUM AX             |                   | Acacia Senegal Gum & Xanthan Gum                                              | 0.07   |
| D                      | DEIONIZED WATER   | Water                                                                         | 5.00   |
|                        | SODIUM CHLORIDE   | Sodium Chloride                                                               | 0.70   |
| E                      | AEROSIL 200       | Silica                                                                        | 0.70   |
| Total:                 |                   |                                                                               | 100.00 |

Procedure:

1. Weigh Phase A in the main kettle equipped with homogenizer. Mix until uniform.
2. Micro-pulverize Phase B and add to the main kettle.
3. From Phase C, combine Glycerin, Haisugarcane BG, and Bentone Hydroclay 2000 in a side kettle to make a slurry.
4. Weigh DI Water from Phase C in the side kettle equipped with propeller and heat to 40-45°C. Mix until uniform.
5. Add slurry to Phase C. Mix until uniform.
6. Add the rest of ingredients from Phase C sequentially to the side kettle. Mix until uniform.
7. Weigh Phase D in a side kettle and add to Phase C. Add Phase CD to the main kettle and mix until uniform.
8. Switch to side sweep. Add Phase E to the main kettle and mix until uniform.

G105-394.02

## NATURAL-ME-TIME POWDERY FOUNDATION, SPF-30

| Phase    | Ingredient                | INCI                                                                                               | %      |
|----------|---------------------------|----------------------------------------------------------------------------------------------------|--------|
| <b>A</b> | <b>GRANSENSE TC-8X</b>    | Coco-Caprylate/Caprate & Triheptanoin & C9-12 Alkane & Polyurethane-100                            | 12.00  |
|          | <b>GRANSURF PG-14</b>     | Polyglyceryl-6 Polyricinoleate & Polyglyceryl-10 Dioleate                                          | 4.00   |
|          | <b>VEGELIGHT SILK-LC</b>  | Coconut Alkanes & Coco-Caprylate/Caprate                                                           | 1.00   |
|          | PHYTOLANE LS              | Olive Squalane                                                                                     | 3.00   |
|          | MYRITOL 312               | Caprylic/Capric Triglyceride                                                                       | 7.00   |
|          | FLUIDANOV 20X             | Octyldodecanol & Octyldodecyl Xyloside                                                             | 2.00   |
|          | ALCOLEC BS                | Lecithin                                                                                           | 1.00   |
|          | COVI-OX T-90 EU C         | Tocopherol                                                                                         | 1.20   |
|          | <b>UV CUT TIO2-55-CG</b>  | Titanium Dioxide & Caprylic/Capric Triglyceride & Stearic Acid & Alumina & Polyhydroxystearic Acid | 5.00   |
|          | <b>UV CUT ZNO-68-CG</b>   | Zinc Oxide & Caprylic/Capric Triglyceride & Polyhydroxystearic Acid                                | 20.00  |
| <b>B</b> | NAID-TRI-77891            | Titanium Dioxide(CI 77891) & Disodium Stearoyl Glutamate & Aluminum Hydroxide                      | 3.00   |
|          | NAID-YELLOW               | Iron Oxide(CI 77492) & Disodium Stearoyl Glutamate & Aluminum Hydroxide                            | 2.10   |
|          | NAID-RED BLUE             | Iron Oxide(CI 77491) & Disodium Stearoyl Glutamate & Aluminum Hydroxide                            | 0.47   |
|          | NAID-BLACK                | Iron Oxide(CI 77499) & Disodium Stearoyl Glutamate & Aluminum Hydroxide                            | 0.19   |
|          | <b>GRANPOWDER BBP-700</b> | Saccharomyces Ferment & Lauroyl Lysine                                                             | 1.00   |
| <b>C</b> | DEIONIZED WATER           | Water                                                                                              | 29.52  |
|          | BENTONE HYDROCLAY 2000    | Hectorite                                                                                          | 1.80   |
|          | GLYCERIN                  | Glycerin                                                                                           | 3.00   |
|          | SODIUM BENZOATE           | Sodium Benzoate                                                                                    | 0.15   |
|          | LEXGARD NATURAL MB        | Glyceryl Caprylate & Glyceryl Undecylenate                                                         | 1.50   |
|          | SOLAGUM AX                | Acacia Senegal Gum & Xanthan Gum                                                                   | 0.07   |
|          | SODIUM CHLORIDE           | Sodium Chloride                                                                                    | 1.00   |
|          | Total:                    |                                                                                                    | 100.00 |

Procedure:

1. Weigh Phase A in the main kettle equipped with homogenizer and heat to 35-40°C. Mix until uniform.
2. Micro-pulverize Phase B and add to the main kettle. Mix until uniform.
3. From Phase C, combine Glycerin and Bentone Hydroclay 2000 in a side kettle to make a slurry.
4. Weigh DI Water from Phase C in a side kettle equipped with propeller and heat to 40-45°C.
5. Add slurry to Phase C. Mix until uniform.
6. Add the rest of ingredients from Phase C sequentially to the side kettle. Mix until uniform.
7. Add Phase C to the main kettle. Mix until uniform.

G105-416.02

## NATURAL-ME-TIME LUMI LIPSTICK

| Phase    | Ingredient                          | INCI                                                                    | %      |
|----------|-------------------------------------|-------------------------------------------------------------------------|--------|
| <b>A</b> | <b>REFINED CANDELILLA WAX MD-21</b> | Euphorbia Cerifera (Candelilla) Wax                                     | 13.00  |
|          | CARNAUBA WAX                        | Copernicia Cerifera (Carnauba) Wax                                      | 3.00   |
|          | NF YELLOW BEESWAX #423G             | Beeswax                                                                 | 2.00   |
|          | RITA SAO                            | Prunus Amygdalus Dulcis (Sweet Almond) Oil                              | 18.00  |
|          | KESTER WAX K-60P                    | Polyhydroxystearic Acid                                                 | 3.00   |
|          | EUTANOL G                           | Octyldodecanol                                                          | 5.00   |
|          | COCONUT OIL                         | Cocos Nucifera (Coconut) Oil                                            | 1.50   |
|          | <b>GRANSENSE TC-8X</b>              | Coco-Caprylate/Caprate & Triheptanoin & C9-12 Alkane & Polyurethane-100 | 15.00  |
|          | D&C RED NO. 7, 40% IN CASTOR OIL    | Ricinus Communis Seed Oil & Red 7                                       | 30.00  |
|          | TIO2, 50% IN CASTOR OIL             | Titanium Dioxide (and) Castor Oil                                       | 8.00   |
|          | AEROSIL 200                         | Silica                                                                  | 0.40   |
|          | SUCRALOSE                           | Sucralose                                                               | 0.10   |
|          | COVI-OX T-90 EU C                   | Tocopherol                                                              | 1.00   |
|          | Total:                              |                                                                         | 100.00 |

Procedure:

1. Weigh Phase A in the main kettle equipped with 3-prong blade. Heat to 90-95°C and mix until uniform.
2. Pour at 75-80°C.

G105-395.01

## NATURAL-ME-TIME BB

| Phase    | Ingredient                     | INCI                                                                                                                                                                               | %      |
|----------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| <b>A</b> | <b>GRANSENSE TC-8X</b>         | Coco-Caprylate/Caprate & Triheptanoin & C9-12 Alkane & Polyurethane-100                                                                                                            | 12.00  |
|          | <b>GRANSURF PG-14</b>          | Polyglyceryl-6 Polyricinoleate & Polyglyceryl-10 Dioleate                                                                                                                          | 8.00   |
|          | CETIOL LC                      | Coco-Caprylate/Caprate                                                                                                                                                             | 15.25  |
|          | MYRITOL 312                    | Caprylic/Capric Triglyceride                                                                                                                                                       | 2.00   |
|          | PELEMOL 6GPR                   | Polyglyceryl-6 Polyricinoleate                                                                                                                                                     | 1.00   |
|          | COVI-OX T-90 EU C              | Tocopherol                                                                                                                                                                         | 1.50   |
|          | ALCOLEC BS                     | Lecithin                                                                                                                                                                           | 1.50   |
|          | <b>GRANPOWDER BBP-700</b>      | Saccharomyces Ferment & Lauroyl Lysine                                                                                                                                             | 2.00   |
|          | <b>GRANSERPER WHITE-CU-65</b>  | Titanium Dioxide (CI 77891) & Coco-Caprylate/Caprate & Polyglyceryl-6 Polyricinoleate & Polyhydroxystearic Acid & Dilinoleic Acid/Butanediol Copolymer & Castor Oil/IPDI Copolymer | 5.90   |
|          | <b>GRANSERPER YELLOW-CU-51</b> | Iron Oxides (CI 77492) & Coco-Caprylate/Caprate & Polyglyceryl-6 Polyricinoleate & Polyhydroxystearic Acid & Dilinoleic Acid/Butanediol Copolymer & Castor Oil/IPDI Copolymer      | 1.50   |
| <b>B</b> | <b>GRANSERPER RED-CU-57</b>    | Iron Oxides (CI 77491) & Coco-Caprylate/Caprate & Polyglyceryl-6 Polyricinoleate & Polyhydroxystearic Acid & Dilinoleic Acid/Butanediol Copolymer & Castor Oil/IPDI Copolymer      | 0.40   |
|          | <b>GRANSERPER BLACK-CU-65</b>  | Iron Oxides (CI 77499) & Coco-Caprylate/Caprate & Polyglyceryl-6 Polyricinoleate & Polyhydroxystearic Acid & Dilinoleic Acid/Butanediol Copolymer & Castor Oil/IPDI Copolymer      | 0.10   |
|          | MEARLMICA CF                   | Mica                                                                                                                                                                               | 6.00   |
|          | DEIONIZED WATER                | Water                                                                                                                                                                              | 33.00  |
|          | BENTONE HYDROCLAY 2000         | Hectorite                                                                                                                                                                          | 1.80   |
|          | SODIUM CHLORIDE                | Sodium Chloride                                                                                                                                                                    | 1.00   |
|          | GLYCERIN                       | Glycerin                                                                                                                                                                           | 5.40   |
|          | LEXGARD NATURAL MB             | Glyceryl Caprylate & Glyceryl Undecylenate                                                                                                                                         | 1.50   |
|          | SODIUM BENZOATE                | Sodium Benzoate                                                                                                                                                                    | 0.15   |
|          | Total:                         |                                                                                                                                                                                    | 100.00 |

Procedure:

1. Weigh Phase A in the main kettle equipped with homogenizer and mix until uniform.
2. From Phase B, combine Glycerin and Bentone Hydroclay 2000 in a side kettle to make a slurry.
3. Weigh DI Water from Phase B and heat to 40-45°C. Add slurry and mix until uniform.
4. Add the rest of ingredients from Phase B sequentially to the side kettle. Mix until uniform.
5. Add Phase B to the main kettle and mix until uniform.

G105-422.02

## NATURAL-ME-TIME GLOW BRONZER

| Phase    | Ingredient                | INCI                                                                    | %      |
|----------|---------------------------|-------------------------------------------------------------------------|--------|
| <b>A</b> | DEIONIZED WATER           | Water                                                                   | 57.05  |
|          | SOLAGUM TARA              | Caesalpinia Spinosa Gum                                                 | 0.30   |
|          | GLYCERIN                  | Glycerin                                                                | 5.00   |
|          | SODIUM BENZOATE           | Sodium Benzoate                                                         | 0.15   |
|          | LEXGARD NATURAL MB        | Glyceryl Caprylate & Glyceryl Undecylenate                              | 1.50   |
| <b>B</b> | PALMITIC ACID             | Palmitic Acid                                                           | 1.00   |
|          | STEARIC ACID              | Stearic Acid                                                            | 1.50   |
|          | JEECHEM GMS-D             | Glyceryl Stearate SE                                                    | 0.70   |
|          | COVI-OX T-90 EU C         | Tocopherol                                                              | 1.00   |
| <b>C</b> | <b>GRANSENSE TC-8X</b>    | Coco-Caprylate/Caprate & Triheptanoin & C9-12 Alkane & Polyurethane-100 | 10.00  |
|          | <b>GRANPOWDER BBP-700</b> | Saccharomyces Ferment & Lauroyl Lysine                                  | 3.00   |
|          | PLANTAREN 1200 N UP       | Lauryl Glucoside                                                        | 1.80   |
|          | COLORONA BRONZE           | Mica & Iron Oxides (CI 77491)                                           | 12.00  |
|          | MEARLMICA CF              | Mica                                                                    | 5.00   |
|          | Total:                    |                                                                         | 100.00 |

Procedure:

1. Weigh Phase A in the main kettle equipped with homogenizer and heat to 70-75°C. Mix until uniform.
2. Weigh Phase B in the side kettle equipped with propeller and heat to 70-75°C. Mix until uniform.
3. Add Phase B to the main kettle and mix until uniform.
4. Add Phase C sequentially to main kettle and mix until uniform.

G105-393.02



**GRANT INDUSTRIES**  
*Where Performance Matters*

FOLLOW US ON



Instagram @grant.industries