



GRANULA

The Superior Concept for Physical Filters

GranLux® is the scientifically superior way of introducing physical UV filters in sun and skin care as well as color cosmetic applications. Independent tests have repeatedly proven that GranLux® dispersions outperform competing products with regard to easy of use and high efficacy.

By our scientific approach GranLux® provides enhanced stability and performance. GranLux® makes formulating easy; actually introducing 'instant' sun care products - just add oil, water and emulsify. GranLux® products are available for lotions, creams, oil free products, gels, lipsticks and various color cosmetic applications.

GranLux® standard products for lotions and creams:

| Type | INCI constituents |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| CCT-40 | caprylic capric mono/diglycerides, titanium dioxide |
| MSN-50 | titanium dioxide, apricot kernel oil PEG-40 esters, cetearyl glucoside, cetearyl alcohol, hydrogenated decene oligomers |
| EM-50 | cetearyl glucoside, cetearyl alcohol, titanium dioxide |
| EM-45TZ | cetearyl glucoside, cetearyl alcohol, titanium dioxide, zinc oxide |
| EM-45Z | cetearyl glucoside, cetearyl alcohol, zinc oxide |
| TEM-45 | caprylic/capric triglyceride, cetearyl glucoside, cetearyl alcohol, titanium dioxide |
| TEM-45Z | caprylic/capric triglyceride, cetearyl glucoside, cetearyl alcohol, zinc oxide |
| TEM-45TZ | caprylic/capric triglyceride, cetearyl glucoside, cetearyl alcohol, titanium dioxide, zinc oxide |
| AB-50 | titanium dioxide, C12-C15 alkylbenzoate, polyhydroxy stearic acid |
| AB-55Z | zinc oxide, C12-C15 alkylbenzoate, polyhydroxy stearic acid |
| TG-50 | titanium dioxide, caprylic/capric triglyceride, polyhydroxy stearic acid |
| TG2-50M1 | titanium dioxide, caprylic/capric triglyceride, polyhydroxy stearic acid, cross- linked polymethylmethacrylate |
| GAW-45 | titanium dioxide, polyglyceryl-4-isostearate & cetyl dimethicone copolyol & hexyl laurate, polyhydroxystearic acid, alumina, dimethicone |
| GAW-45TZ | titanium dioxide, zinc oxide, polyglyceryl-4-isostearate & cetyl dimethicone copolyol & hexyl laurate, polyhydroxystearic acid, alumina, dimethicone |
| GAI-45 | titanium dioxide, polyglyceryl-4-isostearate & cetyl dimethicone copolyol & hexyl laurate, isononyl isononanoate , alumina, stearic acid |
| GAI-45TZ | titanium dioxide, zinc oxide polyglyceryl-4-isostearate & cetyl dimethicone copolyol & hexyl laurate, isononyl isononanoate , alumina, stearic acid |
| GAC-45TZ | titanium dioxide, zinc oxide, polyglyceryl-4-isostearate & cetyl dimethicone copolyol & hexyl laurate, c-penta siloxane , alumina, dimethicone |
| NA-50TZ | titanium dioxide, zinc dioxide, hydrogenated decene oligomers, cetyl dimethicone copolyol, alumina, dimethicone |
| NA-50M1 | titanium dioxide, hydrogenated decene oligomers, cetyl dimethicone copolyol, alumina, dimethicone, cross- linked polymethylmethacrylate |

GranLux® standard products for sticks and color cosmetic applications:

| Type | INCI constituents |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CCA-50 | titanium dioxide, cera alba, carnauba |
| PCA-50 | titanium dioxide, paraffine, cera alba, lactic acid ester |
| Melanin Mimic™ | titanium dioxide, iron oxides, hydrogenated decene oligomers, apricot kernel oil PEG 40 esters, cetearyl glucoside, cetearyl alcohol, polyhydroxy stearic acid, alumina, dimethicone |

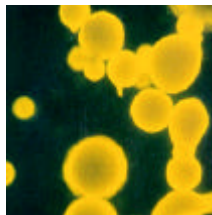
GranLux® custom-made products also available:

Please ask our representatives for details

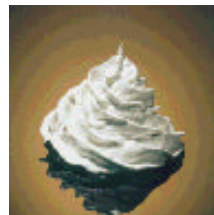
Solid dispersion



Microscopic view



Semisolid dispersion



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