

PLATFORM

CARBOGREEN

SILKIER. SIMPLER. GREENER.



CARBOGREEN PLATFORM THE NEW GENERATION OF COSMETICS

The products of Carbogreen Platform form stable polymeric structures capable of retaining large quantities of water that increase viscosity of cosmetic formulas with a unique texture. This exclusive technological platform developed by ASSESSA, allows the formation of Interpenetrating Polymer Networks (Interpenetrating Polymer Networks – IPN) using polysaccharides of botanical origin.

ASSESSA

INNOVATION FOR A GREENER WORLD



EI QUICK ABSORPTION BY THE SKIN. IDEAL FOR EMULSIONS

Carbogreen EI adds texture with low tack, is soft to the touch and quickly absorbed by the skin. Ideal for emulsions.

MAIN BENEFITS

- Carbogreen range is made of 100% botanical sources and is fully biodegradable.
- Does NOT need neutralizers.
- Meets international CHINA and REACH standards.
- It is very simple to use. It does not require expensive high-shear stirrers and does not form lumps in the solution.
- Is NOT a source of hidden pollution.



Carbogreen is a texturizer with coemulsifying properties that presents unique sensory in the skin and hair, with fast drying, film formation and excellent spreadability.

PROPERTIES

GENERAL

- Improves formula stability
- Improves the sensory and the visual aspect of the formula
- Versatile for different applications and cosmetic formulas.

PHYSICAL-CHEMICAL

- White powder
- Preservative free
- Water-soluble
- Opalescent appearance when dispersed in water
- Natural co-emulsifier

SENSORY

- Natural sensory agent
- Great spreadability
- Fast absorption
- Dry touch (reduces the greasy feel in oily skin)
- Film-formation agent

SUSTAINABILITY

- Cosmos Certified
- Biodegradable
- Vegan

TECHNOLOGY

- Mechanism of action IPN and SIPN

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CARBOGREEN EA is rapidly absorbed by skin, is 100% natural and doesn't require any synthetic co-ingredient, such as alkalis or electrolytes, and can be used in formulas for sensitive skin.

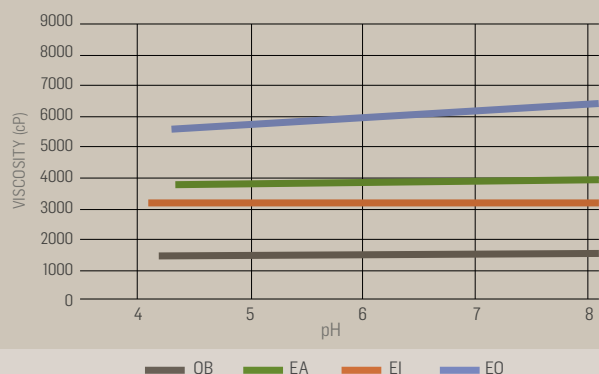
INCI NAME

Oryza Sativa Rice Starch (and) Cyamopsis Tetragonoloba (Guar Gum (and) Algin

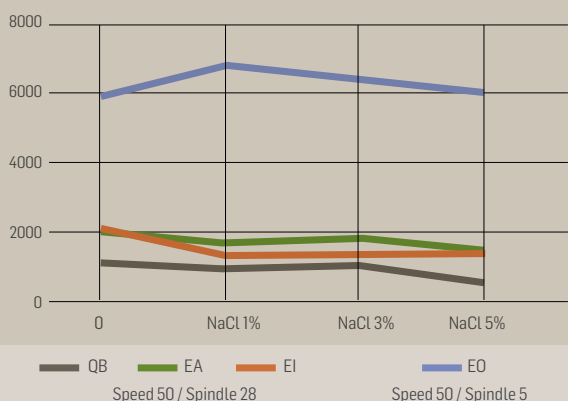
IN ADDITION TO A SUSTAINABLE ORIGIN, CARBOGREEN WAS CONSIDERED 100% BIODEGRADABLE AFTER 28 DAYS.

COMPARATIVE TESTS

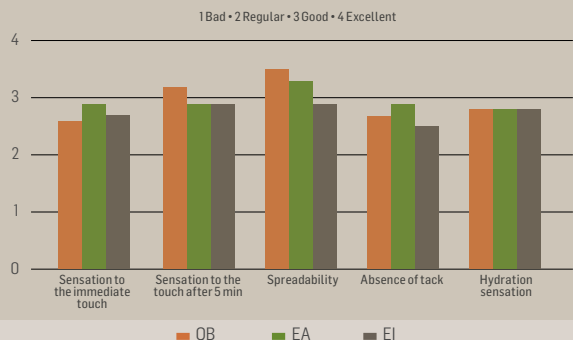
VISCOSITY x pH



STABILITY IN THE PRESENCE OF ELECTROLYTES



COMPARATIVE PANEL (SENSORY ANALYSIS)



FORMULATION

HOT PROCESS

| | VISCOSITY (cPs)* | | |
|---------------------------|------------------|-----------------|-----------------|
| | PROCESS AT 40°C | PROCESS AT 60°C | PROCESS AT 80°C |
| EI (3% solution in water) | 750 | - | 1900 |

(*) Brookfield • Spindle 28 • Speed 50 RPM

INSTRUCTIONS

Carbogreen requires heating from 40°C to 80°C. The viscosity of the final product is directly proportional to the temperature.

1. Add water at room temperature in a container with good stirring (500 to 800 rpm) using propeller (helix, dissolver or turbine). Different stirring speeds may be needed, depending on the propeller type and container volume or geometry.
2. Add slowly, dispersing Carbogreen with stirring.
3. After adding Carbogreen, start heating until the desired final temperature (between 40°C and 80°C) while stirring.
4. If the formula has other ingredients in the water phase, like glycols, add them before the dispersion of Carbogreen.
5. Heat the final solution to a temperature between 40°C and 80°C (5 to 10 min).
6. Allow cooling.
7. Mix the remaining ingredients of the formula at the recommended temperature.

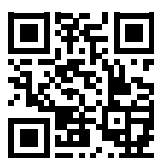
USAGE LEVELS

| PRODUCT | (%) |
|---------------------|------------|
| EMULSIONS | 1.5 to 3.0 |
| CATIONICS EMULSIONS | 1.0 to 3.0 |

USAGE LEVELS IN ASSOCIATION

| ASSOCIATION | SERUM/HIDROGEL | SURFACTANTS (MAX 15%)* |
|-------------|----------------|------------------------|
| EO+EI | 1.0 % + 2.0 % | 1.0 % + 2.0 % |

* Non-ionic surfactants have excellent foam, creaminess and silky sensory properties. Anionic surfactants have more astringent foam. In both cases the maximum surfactant limit is 15%.



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