PLATFORM CARBOGREEN

SILKIER. SIMPLER. GREENER.

NATURAL ORIGIN 100%

ASSESSA

INNOVATION FOR A GREENER WORLD

Approved by ECOCERT RAW MATERIAL

EO FORMS STABLE SUSPENSIONS IN FORMULAS

Carbogreen EO can be used in emulsions, primers, BB creams, CC creams and exfoliating creams. It forms stable suspensions in formulas with solid ingredients such as pigments, titanium dioxide, mica and exfoliating agents. Adds a dry and velvety touch to the skin.

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

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.

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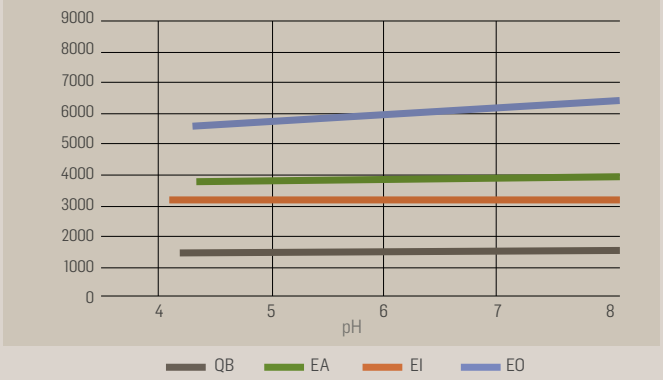
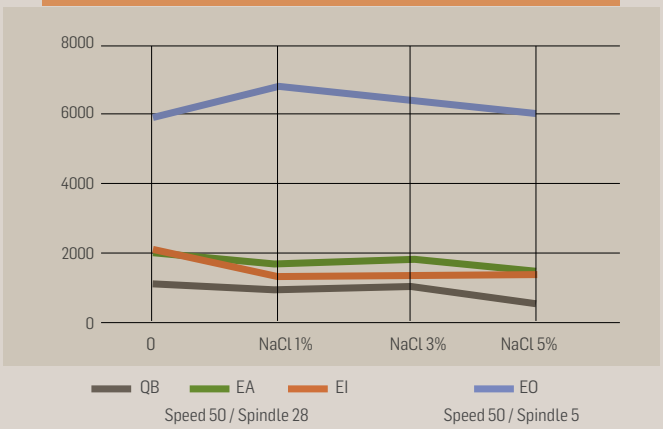
IN ADDITION TO A SUSTAINABLE ORIGIN, CARBOGREEN WAS CONSIDERED 100% BIODEGRADABLE AFTER 28 DAYS.

COMPARATIVE TESTS

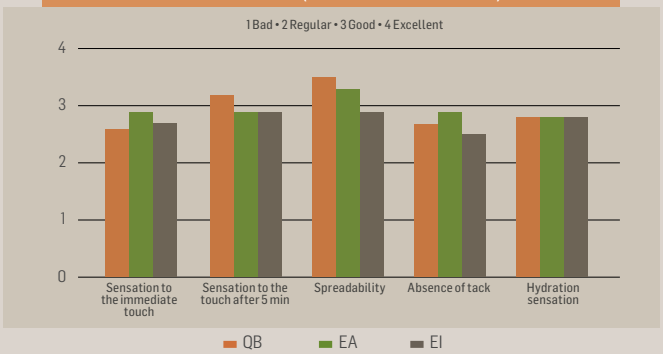
VISCOSITY x pH

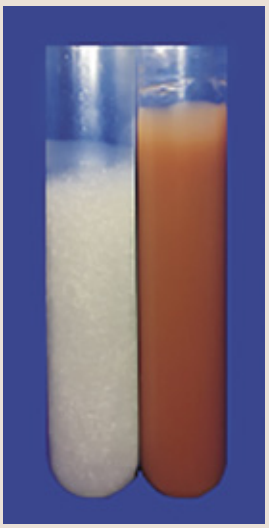


STABILITY IN THE PRESENCE OF ELECTROLYTES



COMPARATIVE PANEL (SENSORY ANALYSIS)





CARBOGREEN EO forms stable pigment suspensions such as mica/titanium dioxide and clay (Red Montmorillonite)

FORMULATION

HOT PROCESS

	VISCOSITY (cPs)*		
	PROCESS AT 40ºC	PROCESS AT 60ºC	PROCESS AT 80ºC
EO (3% solution in water)	3600	4400	6500
EO+QB (1% + 2% solution in water)	1550	1950	3400
EO+EA (1% + 2% solution in water)	1900	2100	3500

(*) Brookfield • Spindle 28 • Speed 50 RPM

INSTRUCTIONS

Carbogreen requires heating from 40ºC to 80ºC. 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 40ºC and 80ºC) 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 40ºC and 80ºC (5 to 10 min).
6. Allow cooling.
7. Mix the remaining ingredients of the formula at the recommended temperature.

USAGE LEVELS

PRODUCT	(%)
EMULSIONS	1.0 to 2.0
CATIONICS EMULSIONS	1.0 to 2.0

USAGE LEVELS IN ASSOCIATION

ASSOCIATION	SERUM / HIDROGEL	SURFACTANTS (MAX 15%)*
EO+QB	1.0 % + 2.0 %	1.0 % + 2.0 %
EO+EI	1.0 % + 2.0 %	1.0 % + 2.0 %
EO+EA	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%.

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

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