Care Creations™

Ultra Filling Spheres™

by **Beauty Creations**

The ultimate generation

BASF
The Chemical Company

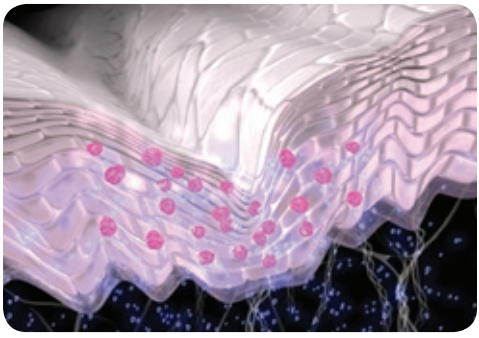
Ultra Filling Spheres™ : the ultimate generation of Filling Spheres

Launched a few years ago, the success of filling spheres has never wavered. Declined over the years in vegetal, marine and then hyaluronic version, Beauty Creations today unveils the 5th chapter of this advanced solution with Ultra Filling Spheres™.

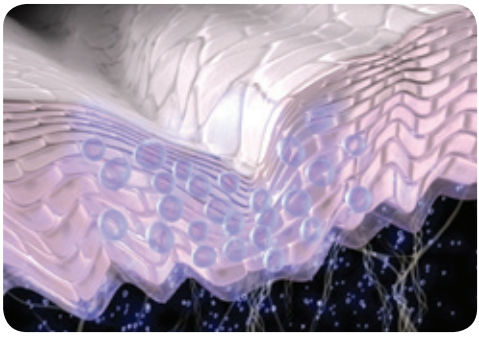
For this new sequel, we found inspiration in the ancient practices of Chinese medicine and discovered a plant with spectacular hygroscopic properties, allowing us to increase the effectiveness of our already proven filling spheres.

Proprietary solution, optimized system, rapid results

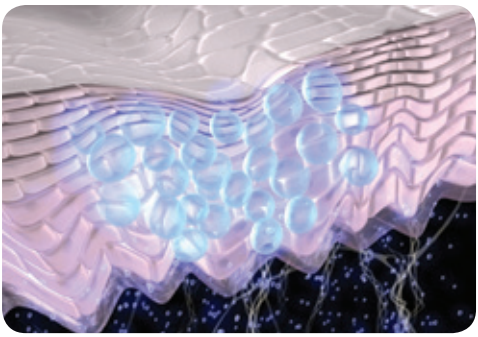
Filling Spheres™ technology is based on the ability of dehydrated and cross-linked spheres to penetrate the upper layers of the epidermis and to absorb the water that evaporates from the deep dermis. Thanks to their hygroscopic properties, the volume of the spheres increases rapidly. Thus inflated, they tighten the skin, smoothing out wrinkles and leaving an elastic skin surface with long lasting hydration.



Dehydrated Ultra Filling Spheres™ penetrating the upper layers of the epidermis.



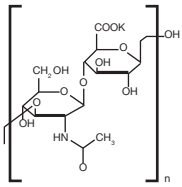
Ultra Filling Spheres™ absorbing the water from the deep dermis.



Hydrated Ultra Filling Spheres™ rapid smoothing effect.

With its extensive experience in mastering this solution, **Beauty Creations** has optimized its raw materials for filling spheres and created Ultra Filling Spheres™.

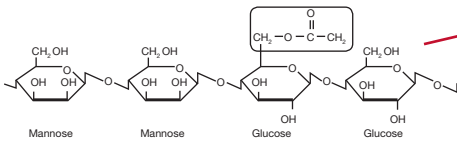
These new generation spheres are composed of two biopolymers: hyaluronic acid of low molecular weight (<40 kDa) and konjac glucomannan, a polysaccharide of high molecular weight (> 200 kDa) whose cross-linking and dehydration transforms into Ultra Filling Spheres™.



Hyaluronic Acid (< 40 kDa)

ø 3 - 20 µm

Konjac glucomannan (> 200 kDa)



Dual focus

Biopolymers

- The effects of hyaluronic acid on the skin are well known. We selected a hyaluronic acid of low molecular weight for its high hygroscopy.
- Konjac glucomannan is a vegetal polysaccharide with exceptional hygroscopic properties since it is capable of absorbing up to two hundred times its weight in water.

Konjac

Focus on the plant

Konjac *(Amorphophallus konjac)* is a plant of the Araceae family that grows naturally in the forests of Thailand, Vietnam and southern China. It is known in traditional Chinese medicine and Asian herbology as "devil's tongue" for its detoxifying and soothing properties, and is a major ingredient in traditional cuisine. It is now widely used in slimming diets, its great capacity for absorbing water making it a very effective appetite suppressant.

Properties

Increased water absorption and swelling capacity
Long-lasting moisturization
Smoothing of fine lines and deep wrinkles

Applications

Anti-wrinkle treatment.

Eye contour.

Deep wrinkle treatment.

Long term hydration.

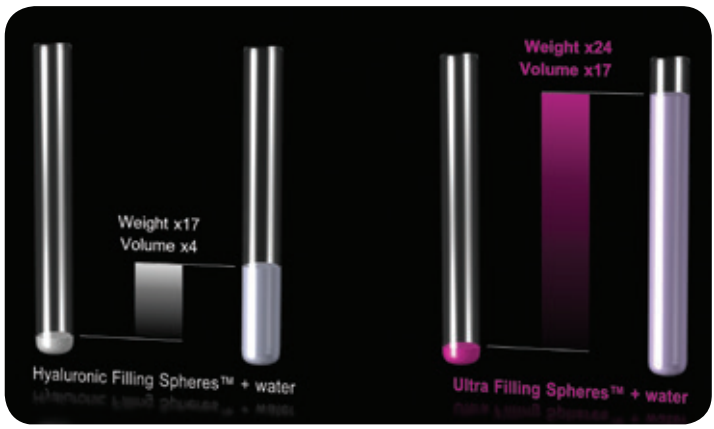
Volumizing lipsticks.

Increased efficiency

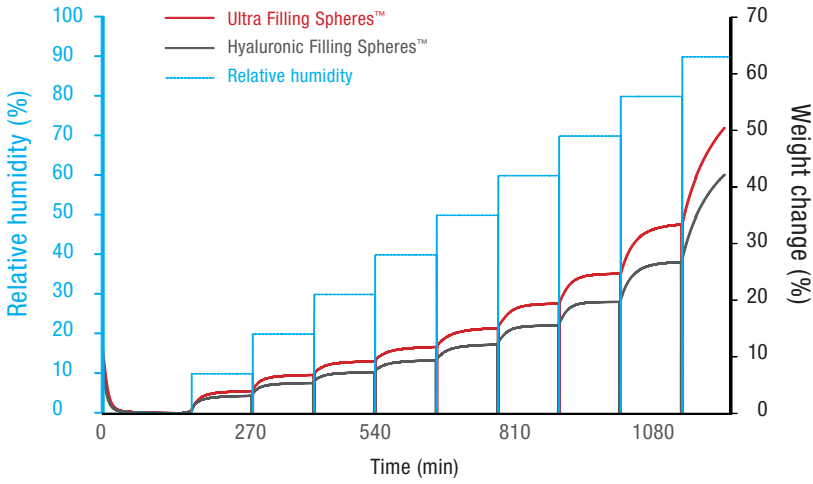
Ultra Filling Spheres™ (microspheres in dehydrated form) have a much higher capacity for water absorption and swelling than the previous generations of filling spheres.

In vitro results prove it.

Water absorption capacity

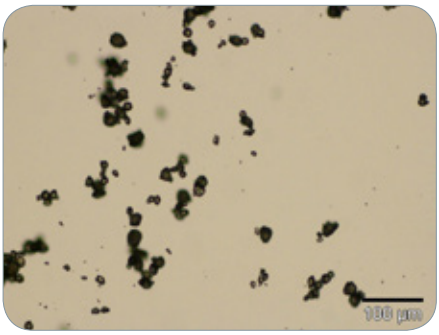


Sorption isotherm of Ultra Filling Spheres™



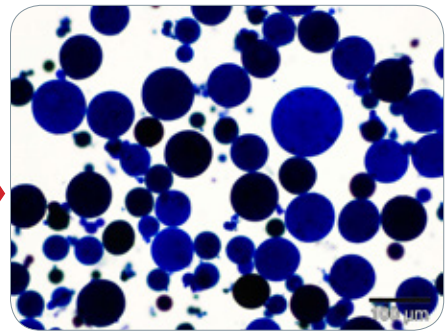
DVS (Dynamic Vapor Sorption) profile of Ultra Filling Spheres™ and Hyaluronic Filling Spheres™

+ 20% more water retained (compared to Hyaluronic Filling Spheres™)



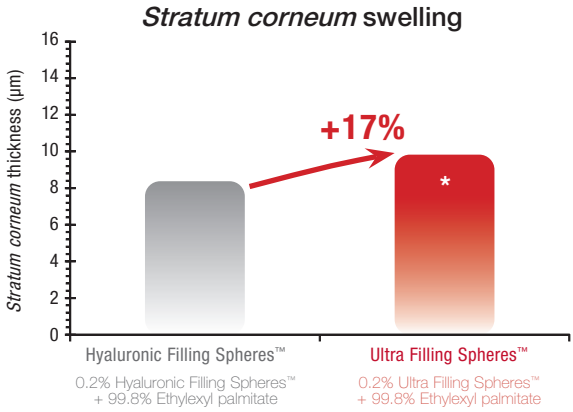
Dehydrated Ultra Filling Spheres™

x6



Hydrated Ultra Filling Spheres™

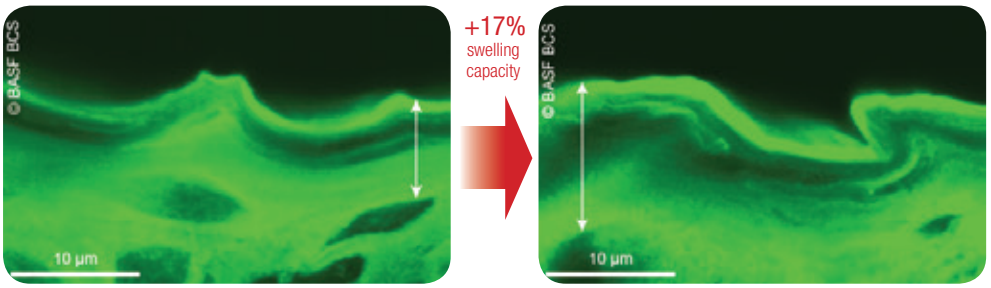
Stratum corneum swelling (*ex vivo*)



** : statisticaly significant compared to Hyaluronic Filling Spheres™*

Ex vivo test of *stratum corneum* swelling capacity by the filling spheres™.
Mean ± SD, n=10.

Stratum corneum thickness: +17% (compared to Hyaluronic Filling Spheres™)



Biopsy treated by Hyaluronic Filling Spheres™

Biopsy treated by Ultra Filling Spheres™

Ultra Filling Spheres™, by their composition in hyaluronic acid and konjac polysaccharides, have a far greater capacity to absorb water and swell than the previous versions of filling spheres, enhancing their ability to plump out deep and superficial wrinkles and to smooth the skin surface.

Summary

REFERENCE Ultra Filling Spheres™ C00487

DESCRIPTION Dehydrated microspheres of hyaluronic acid and konjac glucomannan, suspended in an oily medium of ethylhexyl palmitate.

DOSE OF USE 0.5 - 3%

REGULATORY DATA

INCI (US) Ethylhexyl Palmitate, Trihydroxystearin, Sodium hyaluronate, Glucomannan

CAS 29806-73-3, 139-44-6, 9067-32-7, 37220-17-0

EINECS 249-862-1, 205-364-6, 232-678-0, 253-404-6

China All the raw materials comprising the INCI name of Ultra Filling Spheres™ are listed on the Inventory of Existing Cosmetic Ingredient in China (June 30 th, 2014 version), Glucomannan listed as "glycomannan"

Preservative None

SPECIFICATIONS

Available upon request

FORMULATION

Predispersion in the oily phase of the emulsion before creating the emulsion. Do not use aqueous gel or emulsions in oily phase at less than 20%.

TOXICOLOGY

Available data upon request.

PATENT APPLICATION

Polymer of hyaluronate and of glucomannan.

Inventors Florent Durieux ; Eric Nappi ; Isabelle Bonnet. FR2997406 B1 ; EP2912073 A1 (FR, IT, GB, DE, ES) ; CN104870479 A ; KR20150070394 A ; US2015283055 A1

CUSTOMS CODE 38249097

STORAGE

Between 4 and 35°C, in its original packaging, away from moisture and light.

SHELF LIFE 18 months

MANUFACTURER

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Commercial sample of Ultra Filling Spheres™ and some examples of formulas .

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