

SPONGE SPICULES

NATURAL BIO-MICRONEEDLES FOR ADVANCED SKINCARE

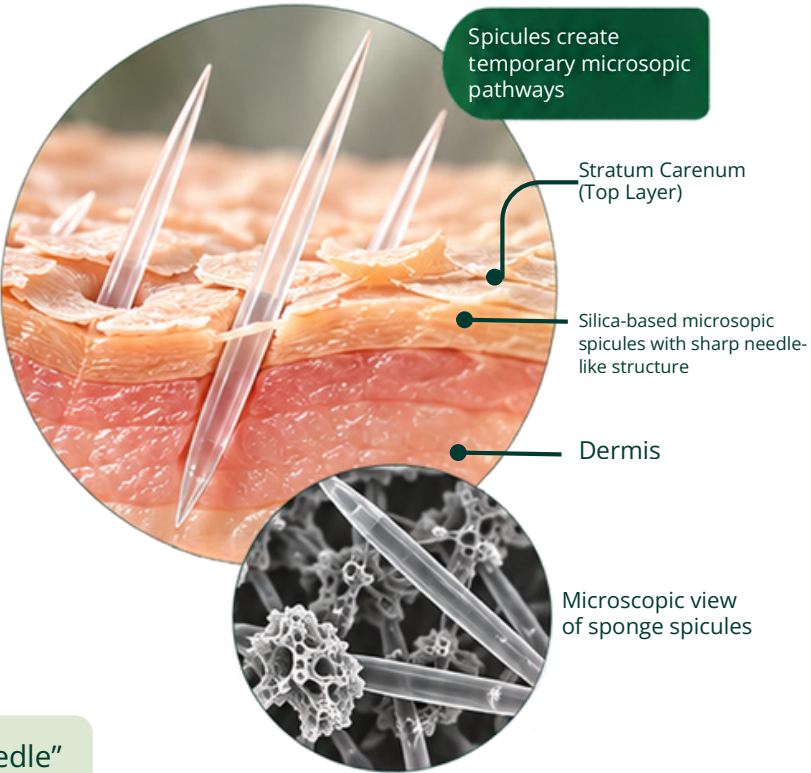
Microscopic silica-based spicules derived from freshwater sponge. Widely used in modern skincare formulations to exfoliate, revitalize and enhance the absorption of cosmetic actives.



How Does It Work?

The microscopic spicules interact mechanically with the stratum careum, creating temporary microscopic pathways. This can:

-  Remove dead skin cells
-  Improve skin texture and smoothness
-  Support skin renewal
-  Improve distribution / penetration of certain cosmetic actives
-  Give a characteristic tingling / prickling sensation



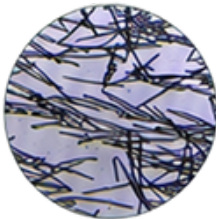
It can be used in “spicule” or “bio-microneedle” skincare concepts.

It is not the same as professional micro needling; cosmetic spicules primarily act in the superficial epidermis / stratum-careum region.

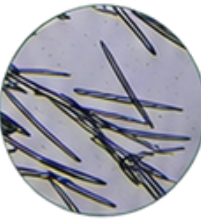
Appearance & Microscopic View



White / Off-white fine powder



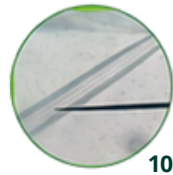
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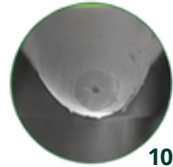
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x200



1000x



1000x

PRODUCT SPECIFICATIONS

Parameter	Information
INCI Name	Hydrolyzed Sponge
Common Names	Sponge Spicule, Spongilla Spicules, Spicule Powder
Source	Mainly freshwater sponge
Appearance	White to off-white fine powder
Main Structure	Silica-based microscopic spicules
Solubility	Water-insoluble; typically dispersed or suspended in formulations
CAS No.	N/A / Supplier-dependent; verify supplier documentation
Typical Spicule Size	Supplier-dependent; examples are approximately 150–350 µm in length , with smaller diameters
Function	Skin conditioning, exfoliation, micro-stimulation, and enhancement of cosmetic active distribution/penetration
Suitable Formulations	Serums, ampoules, creams, gels, masks, and peeling products