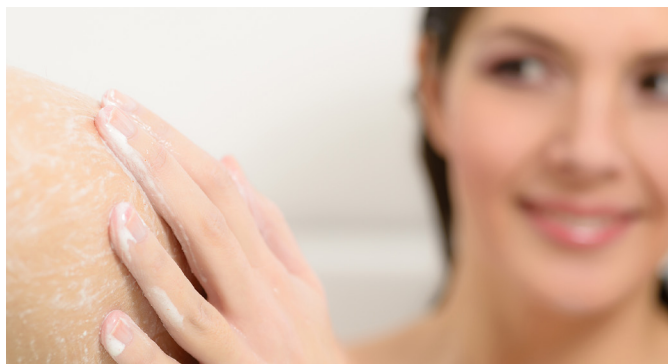


SIPERNAT® PC Hydrated Silica – Exfoliating particles for rinse off formulations



SIPERNAT® PC product overview¹

	Particle size ² (d ₅₀ , µm)	pH (5% in water)	Preferred application (examples)
SIPERNAT® 22 PC	100–140	5.5–7.5	Sensitive skin formulations Face wash
SIPERNAT® 250 PC	180–480	6.0–7.5	General scrub formulations Body wash
SIPERNAT® 2200 PC	260–380	5.0–7.0	Sensitive skin formulations Body wash
SIPERNAT® 9000 PC	550–850	6.0–7.5	Strong particle sensation Foot scrubs / Heavy dirt hand wash

¹ Typical data for technical evaluation – values do not represent a specification,

² Measured by laser diffraction following ISO 13320

Properties

Appearance	White powder
Odor	Odorless
pH	5.0–7.5
CAS Registry No.	112926-00-8 (ex 7631-86-9)

SIPERNAT® PC Hydrated Silica exfoliating particles are tailored to cover the full range of scrub formulations, enabling different desquamation and sensory properties. The SIPERNAT® PC portfolio offers particles in different size, morphology and hardness that enable formulations for skin areas of different sensitivity (e.g. face, body, feet). The synthetic mineral nature of SIPERNAT® PC Hydrated Silica provides for consistent and high quality, reducing the microbiological burden in the formulations to a minimum. The hydrophilic surface of the SIPERNAT® PC

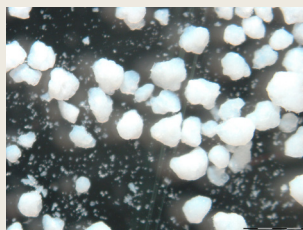
Regulatory information

INCI name	Hydrated Silica
COSMOS	Registered
ISO 16128-1	Derived mineral ingredient
Natrue	Approved (Nature identical inorganic pigment or mineral)

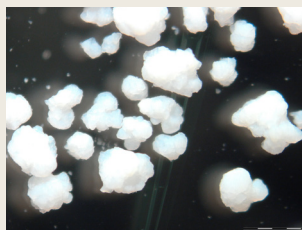
Hydrated Silica particles not only makes them easy to incorporate into any type of scrub formulations but also ensures removal in waste water treatment after application. This makes SIPERNAT® PC an eco-friendly alternative for microplastic.

SIPERNAT® PC Hydrated Silica due to its close relation to natural occurring silica is recognized as nature identical by major certification organizations, e.g. COSMOS.

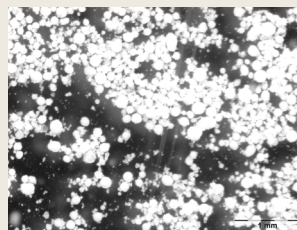
Microscope pictures of SIPERNAT® PC Hydrated Silica particles



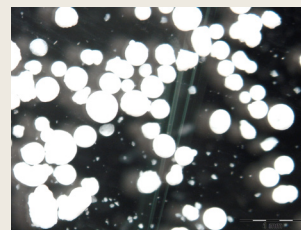
SIPERNAT® 250 PC



SIPERNAT® 9000 PC



SIPERNAT® 22 PC



SIPERNAT® 2200 PC

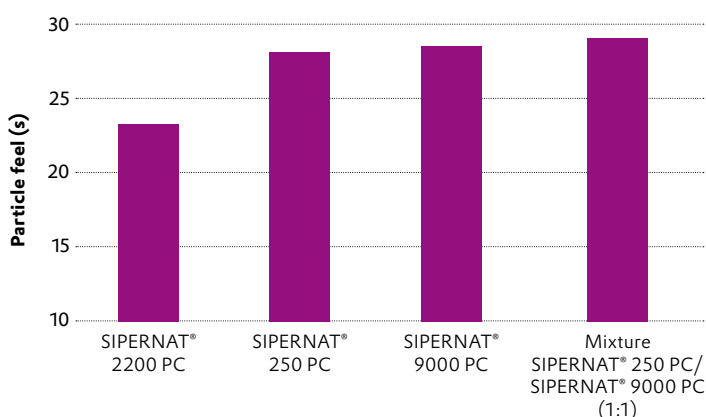
SIPERNAT® 250 PC and SIPERNAT® 9000 PC are composed of exceptionally sturdy round-edged Hydrated Silica particles and are therefore the preferred choice for formulations with a long lasting scrubbing effect. The large SIPERNAT® 9000 PC particles are selected for strong desquamation or for the function of a sensory indicator when combined with smaller particles for the cleaning.

SIPERNAT® 22 PC and SIPERNAT® 2200 PC both feature spherical and softer particles, providing for a gentle cleaning. With its small and soft particles, SIPERNAT® 22 PC is specially recommended for its efficient but gentle desquamation. SIPERNAT® 2200 PC with the bigger particles leads to a more pronounced particle sensation in the formulations. As its particles disintegrate while rubbing on skin the product is a preferred choice when gentle cleansing is desired, e.g. for sensitive formulations.

Processing of SIPERNAT® PC Hydrated Silica

- Incorporate SIPERNAT® PC Hydrated Silica at low to moderate shear to prevent the destruction of the particles at any time during processing
- Typical use concentration is 5 to 10 w.-%. Please note that for the same number of particles higher concentrations of SIPERNAT® PC products with bigger particle size are needed

Durability of SIPERNAT® PC particles dispersed in an aqueous scrub formulation on rubbing to the skin



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Evonik Operations GmbH
Smart Effects business line
Rodenbacher Chaussee 4
63457 Hanau
Germany

ask-se@evonik.com
www.evonik.com
www.evonik.com/smarteffects

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