

ELEMENTIS

A global specialty chemicals company



High Purity talc for Personal Care

MONDANA[®] talc by Elementis

Enhanced Performance Through Applied Innovation



MONDANA® talc

The world's softest mineral

Talc is a hydrated magnesium silicate with the chemical formula $Mg_3Si_4O_{10}(OH)_2$.

There are many types of talc, all formed millions of years ago and each ore body has its own geology and characteristics. Elementis' high quality talc is based on carefully selected ore which is then processed to yield a natural mineral product with extraordinary purity and consistency.

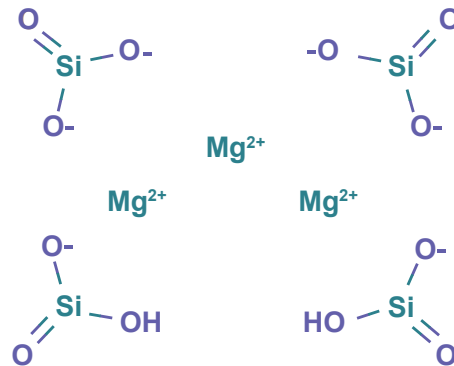


Figure 1: Chemical composition of talc



Figure 2: Talc ore

MONDANA® talc is a natural and ultra-fine talc from Elementis, milled in our flagship plant in Amsterdam, the Netherlands. The talc's particles are platy and very soft, which make it a high-performance component in many Personal care and Cosmetics products.

Characteristics

MONDANA® talc is inert and odourless, so it may easily be added in fragrance free products. The high whiteness of MONDANA® talc can be an attractive characteristic in your formulations. The intense white color creates a consumer perception of a high quality and luxurious product.

The entire MONDANA® range is an environmentally friendly solution and comes straight from nature. The physical composition is tightly controlled. MONDANA® talc is naturally resistant to the growth of micro-organisms. For extra quality assurance, the talc goes through a special heat treatment process which ensures that it is free from microbial contamination. This makes MONDANA® talc an ideal ingredient for use in natural and preservative-free formulations.

MONDANA® talc can be used in foundations to create a matte look on the skin. Talc has excellent oil absorption properties and naturally attaches to the skin which makes it a good addition to foundations designed to conceal skin imperfections.

In eye make-up MONDANA® talc enables the creation of various finishes, from matte-satin to pearly. Our talc's thin and creamy nature allows it to perfectly adhere to the eyelids. It is also resistant to skin secretions and can serve as a perfect filler thanks to its transparency.

In lipsticks MONDANA® talc's ultra-fine minerals roll smoothly over one another to turn a regular lipstick into a full-coverage lipstick with a glamour or soft-glow finish. It especially can provide perfect matting effects yet at the same time create a delicate softening texture. Since it is colorless and odourless, it can serve as a perfect fragrance carrier.

For more applications where our talc is of added value, feel free to contact us.





Cross-reference table

Table 2 : MONDANA® talc product range

PRODUCT	MONDANA®			
	50 HT	35 HT	15 HT	8 HT
Compacts	○	●	○	
Eye shadow		○	●	
Blusher		●	○	
Lipstick			○	●
Foundation and liquid makeup			○	●
Nail polish			○	●
Mascara			○	●
Facial mask/cream		●	○	
Body soap	○	●	○	
Foot deodorants	●	○		
Deodorant	●	○		
Body cream		●	○	
Hair grooming products (hair wax/gel)		○	●	○
Bath salts/bath cube	●	○		
Sunscreen cream/lotion		●	○	
Shaving cream		○	●	○

● Recommended ○ Suitable

Table 1 : PSD Sedigraph and Sympatec Helos

PRODUCT ID	BRIGHTNESS RY (DIN 53163)	PSD D50 Sedigraph	PSD X50 Sympatec Helos	BULK DENSITY (DIN 53468)
MONDANA® 8 HT 	95%	2.2 µm	4.8 µm	0.20 g/cm ³
MONDANA® 15 HT 	93%	5.4 µm	9.0 µm	0.30 g/cm ³
MONDANA® 35 HT 	92%	9.0 µm	14.0 µm	0.45 g/cm ³
MONDANA® 50 HT 	92%	14.0 µm	21.0 µm	0.50 g/cm ³

PSD = Particle size distribution

MONDANA® talc for skin care

MONDANA® talc can help maintain the condition of the skin. Thanks to its hydrophobic character, excess sebum can be reduced by talc and the balance of the natural lipid barrier restored, thus preventing the skin from drying out.

Simultaneously it is highly suitable for oily skin types due to its ability to absorb an overproduction of oily substances.

Talc can be used for skin care products such as body lotions, facial creams and cleansers. MONDANA® talc can impart a creamy consistency and improve formulation texture. Due to its natural softness, it can provide a silky feel, leaving the skin feeling comfortable after use.

MONDANA® talc for shampoo and bath products

Toiletry products such as liquid soaps, bar soaps, shower gels and shampoos can be easily formulated with MONDANA® talc.

MONDANA® talc is a great opacifier for liquid surfactant-based products where it can provide a luxury milky look to these products.

Properties of soap bars are significantly better when containing MONDANA® talc. It facilitates and supports the application of the product, improves its structure and prevents soap bars from cracking.

Surfactant-based products with MONDANA® talc leave the skin feeling soft and pampered by reducing possible skin irritation and dryness after usage. In addition, the special ultra-fine and platy structure of our MONDANA® talc products can provide a creamier lather during washing.

MONDANA® talc for protective products

Talc is also used in protective cosmetics such as foot products, deodorants and antiperspirants.

Due to its excellent oil absorption properties, MONDANA® talc is a perfect long-lasting fragrance carrier. It reduces and neutralizes unpleasant smells while keeping the skin contact area soft and dry.

MONDANA® talc for color cosmetics

MONDANA® talc provides homogeneity to all kinds of cosmetic formulations and can improve the texture of products. Due to its high purity, natural softness and platy structure of the raw material in combination with ultra-fine and carefully controlled milling, MONDANA® talc imparts the soft and silky feel ideal for this application. In pressed powders such as blush and eye shadows, talc attenuates the shine of oily skin and prolongs durability. It also reduces skin opacity. Moreover, MONDANA® talc has a transparent white color and does not change the final coloring and dyes in the products.



COSMOS
APPROVED

Raw material approved by ECOCERT GREENLIFE in accordance with the COSMOS standard

Adding value

The advantages of MONDANA® talc

The advantages of MONDANA® talc lie in its consistency and high purity, bringing distinct and yet subtle benefits to your cosmetic and personal care products.

Elementis applies its extensive know-how to ensure the uncompromising quality of MONDANA® talc through a highly developed quality management process.

Customised research and development

Elementis chemists and formulation experts translate market requirements into innovative products. These resources are available to support you in finding the optimum solution for your application.

From mine to market, from natural rock to pure powder

Applying state-of-the-art technology, Elementis transforms raw materials with a natural variation of properties into MONDANA® talc – one of the most consistent and pure high-quality cosmetics talcs in the world. This requires a high degree of control all along the production chain, from geological research of the most promising deposits to the application of sophisticated selection and purification processes.

Quality management

Consistency is key to success. Therefore, Elementis focuses on a tight and stringent quality management as a major part of its corporate culture. Processes and products are certified according to ISO 9001, ISO 14001, and FSSC, as well as Kosher and Halal requirements.

Who we are

Elementis is a global specialty chemicals company driven by scientific innovation to deliver cosmetic ingredients that enhance the performance and value of our customers' products. A world-renowned expert in rheology technology, Elementis is also a global leader in antiperspirant actives. Elementis' portfolio of green products includes natural clay rheology modifiers and bio-functional active ingredients. Elementis recently added pure, natural MONDANA® talc to our growing catalogue of formulation solutions.



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