The binding properties of the natural minerals clinoptilolite-zeolite and montmorillonite-bentonite are used in many different fields, e.g. as an additive to animal feed, in the agricultural industry, in fish farming, for water / sewage treatment, in the nuclear and aerospace industries, as well as in medicine and cosmetics. In the EU, zeolite is generally approved as a pharmaceutical excipient (Pharm. Eur.) and as legally regulated animal feed for all animal species (1g568) and is manufacturer-bound medical product approval. In the EU, bentonite is approved as a pharmaceutical excipient and additive in animal nutrition, as a substance to reduce contamination in feed with mycotoxin, and as a substance for the control of radionuclide contamination (1m558).

We ensure our zeolite and bentonite are of the highest quality standards: We verify our volcanic minerals when received to ensure they meet the strict quality checks of the European Pharmacopoeia (Pharm. Eur.). We verify they are manufactured in state-approved (accredited) testing laboratories and checked of their safety and effect and that they are continually tested. We are an accredited manufacturer according to DIN EN ISO 13485, the EU standards for quality management systems for manufacturing medical products and all corresponding services.

**THE DETOXICATION PRINCIPAL**

The effect of zeolite and bentonite is mainly based on their ability to combine harmful substances such as aluminium (Al³⁺), lead (Pb²⁺), quicksilver (Hg²⁺), cadmium (Cd²⁺), ammonium (NH₄⁺) and histamin (C₅H₉N₃) through selective ion exchange and the absorption.

Scheme for selective ion exchange:

| Natural zeolite and bentonite structure | Ca²⁺  Mg²⁺  Na⁺  K⁺  NH₄⁺  Pb²⁺  Hg²⁺  Cd²⁺  Al³⁺  C₅H₉N₃ |

**WHICH MINERAL?**

**ZEOLITE - the classic detoxification specialist**
The natural mineral zeolite has been used for natural detoxification since antiquity and is known for its capacity to effectively absorb harmful substances. For example, the nuclear reactor that exploded in Chernobyl was covered in 22,000 tons of clinoptilolite-zeolite and thereby made safe from radiation. We provide zeolite in pharmacopoeia quality, tested in state approved (accredited) test laboratories, in the form of Zeolite MED® in tubs and violet glasses:

- Zeolite MED® powder
- Zeolite MED® capsules
- Zeolite MED® ultra-fine powder

Zeolite as a medical product is available as:

- Zeolite MED® skin powder

**BENTONITE - the gentle detoxifier with a protective gel film**

This ultra-fine clay material made of volcanic ash has a different structure to zeolite. Its special feature is a gel-like protective film, which is why it is called the “gentle” detoxifier. It is particularly well-suited for the protection and the binding of harmful substances (absorption) of sensitive digestive tract mucosa. We provide bentonite in pharmacopoeia quality, tested in state approved (accredited) test laboratories, in the form of Bentonite MED® in tubs and violet glasses:

- Bentonite MED® powder
- Bentonite MED® capsules

**ZEOBENT© – our multi-talented and powerful detoxifier**

Mixtures of zeolite and bentonite combine the properties of both volcanic minerals. Previous experience has shown that both minerals mutually complement and strengthen each other in their effects, meaning that they can be used to intensify detoxification treatments, e.g. following the use of bentonite and zeolite. We provide zeobent in pharmacopoeia quality, tested in state approved (accredited) test laboratories, in the form of Zeobent MED® in tubs and violet glasses:

- Zeobent MED® powder
- Zeobent MED® capsules
- Zeobent MED® ultra-fine powder
POWDER, ULTRA-FINE POWDER OR CAPSULES?

Zeolite is available in various grain sizes, e.g. in the form of powder or ultra-fine powder. Ultra-fine powders are micronized to a smaller and finer scale than regular powder. As a result, the ultra-fine powder has a greater inner surface area, enabling it to absorb and discharge more harmful substances. This means that a smaller dose is possible, compared to the coarser powder. For example, half a teaspoon of ultra-fine powder can be as effective as a slightly heaped teaspoon of powder. Ultra-fine powder contains no “sandy grains” and is so fine that you have the impression that it dissolves. Powder and ultra-fine powder can be easily stirred into water.

It is easy to measure out the dose of capsules and, thanks to their simple and practical usage, they are the ideal solution when you are out and about, for example, if you are traveling or exercising. However, the capsules do not open up until they reach the lower digestive tract (intestine). Therefore, the minerals previously enclosed in the capsules only start to have an effect from this point onwards. Our capsule shells are completely plant-based (vegan) and contain no additives or admixtures.

Examples of dosage

Powder and ultrafine powder can easily be made into a runny to mushy paste just by adding water. When stirring bentonite powder into water, it is helpful to use a beater, whisk or balloon whisk. Please do not inhale its dust! The dosage varies and depends on weight e.g.:

**Powder:**
- 1 heaped teaspoon, 1 to 3 times per day as required
**Ultrafine powder:**
- ½ teaspoon, 1 to 3 times per day as required
**Capsules:**
- 1 to 2 capsules, 1 to 3 times per day as required

First time user and/or sensitive?

Previous experience has shown that sensitive users should begin with a smaller dosage, which should then be slowly increased to an individual maintenance dosage.

Ensure a sufficient fluid intake!

As bentonite can swell up and both bentonite and zeolite can absorb water, it is important to drink plenty of water when using them! In order to manage this swelling effect, you can stir bentonite powder into a glass of water with a beater, whisk or balloon whisk, then leave it covered for 5-6 hours until the next use (e.g. stir into water in the morning for use in the evening, or vice-versa). It is then able to swell up in the glass of water and take full effect.

Gaps between taking the medicine

The gap between taking medicine should preferably be 2 hours. Natural dietary supplements such as vitamins, herbs, algae or minerals can be easily combined with the volcanic minerals. For use on animals, the volcanic minerals can be simply mixed into their feed.

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**Regularity, rhythm and usage time**

The regularity of the usage (times of day and duration) increases the effect of the minerals, whereas interruptions may reduce it. Find the best time period for you below. In chronobiological terms, the following times are recommended for usage:

<table>
<thead>
<tr>
<th>For Internal Use</th>
<th>6 am - 8 am</th>
<th>1 pm - 3 pm</th>
<th>6 am - 8 pm</th>
</tr>
</thead>
<tbody>
<tr>
<td>For External Application on Skin</td>
<td>5 am - 7 am</td>
<td>5 pm - 7 pm</td>
<td></td>
</tr>
<tr>
<td>For Night Time Use</td>
<td>10 pm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Examples of external usage**

- as a body and foot powder
- it softens the water when added to a bath (1 tbsp for a full bath and 1 tsp for a foot bath)
- mix the packet with water to form a paste, apply to the affected areas, cover with a compress and leave to work e.g. overnight
- for use on skin, take a knife point of ultra-fine powder in the palm of your hand, mix with skin cream and apply as normal
- for masks, mix 1 tsp powder with a little water, apply a thin layer to the skin and rinse off after 10 to 15 minutes

**Duration of usage**

Previous experience has shown that the product should be used for no less than 2 months. If required, the volcanic minerals can also be used over extended periods of time in order to cope with the environmental and general living conditions we experience in today’s world. Extensive, long-term monitoring has shown that there are no negative effects on the mineral and vitamin supply.

**Example of required quantities for 2 months**

<table>
<thead>
<tr>
<th>Powder: 1 heaped teaspoon of powder, 3 x per day</th>
</tr>
</thead>
<tbody>
<tr>
<td>= approx. 10g x 60 days = 600g powder</td>
</tr>
<tr>
<td>Capsules: 2 capsules, 3 x per day</td>
</tr>
<tr>
<td>= 6 capsules x 60 days = 360 capsules</td>
</tr>
<tr>
<td>Ultraf. Powder: ½ teaspoon, 3 x per day</td>
</tr>
<tr>
<td>= approx. 3g x 60 days = 180g ultra-fine powder</td>
</tr>
</tbody>
</table>
**TUB OR VIOLET GLASS?**

The plasticiser-free tubs are light and practical, especially if you are on the go.

As a packaging material, violet glass, a dark violet energy-saving glass, offers a completely new concept: it only allows violet, ultra-violet and infrared light into the glass jar. Measurements show that violet light has the highest vibration frequency (705 billion Hertz) of all the colours and is the highest in energy. The violet glass’ unique spectral range provides optimal protection for the content’s molecular structure from the weakening effect of light. In this way, e.g. organic substances can be stored for longer in violet glass jars. Thanks to their wide openings, the violet glasses can be easily refilled.

**NATURAL COSMETICS**

Even when it comes to personal hygiene, everyone has the choice: chemical or natural. Unfortunately, in conventional cosmetics, many problematic chemicals or synthetic substances can be used, which are environmentally unfriendly and have questionable effects on people and animals. These controversial substances are forbidden in natural cosmetics. Our natural cosmetics contain nothing unnatural, are free of silicone, parabens, palm oil and nano particles and are manufactured according to the criteria of the natural cosmetics label NATRUE.

**ZEOLITE MED® TOOTHPASTE**

Without fluoride. The cleaning zeolite is combined with the plaque and caries reducing xylit. The anti-cariogenic effect is due to the growth of caries-causing bacteria such as Streptococcus mutans being inhibited. They cannot metabolise xylitol and thus are starved. Furthermore, they are also prevented from adhering to the surface of the tooth as plaque bacteria. Peppermint oil provides a fresh taste. Chamomile extract and ginger root extract have antiinflammatory effects.

**ZEOLITE MED® SKIN CREAM**

The harmful substance binding zeolite supports the skin’s natural regeneration processes. Jojoba oil has skin-soothing properties, penetrates the skin easily and, thanks to this incredible penetration, it regulates the moisture balance of the skin. Natural vitamin E protects the skin from premature aging caused by light. Glycerin is a moisturiser. Cocoa butter soaks into the skin very quickly, cares for it and leaves the skin feeling silky smooth. A touch of lemon grass and orange oil provides a light, pleasant scent.

**ZEOLITE MED® BODY LOTION**

Our Body lotion not only contains zeolite but also avocado oil, which promotes cell regeneration and is used for dry, chapped and barrier-damaged skin. Its high concentration in palmitoleic acid guarantees it compatibility with sensitive and bad skin conditions. Phytosterols help support the barrier function of the skin. Sheabutter is a valuable skin care agent and has a high concentration of natural allantoin, vitamin E and carotene. It is good for oil replenishment, it smooths and helps heal skin inflammation. The body lotion free of synthetic scents.

**ZEOLITE MED® SUN PROTECTION LOTION LSF 25**

Our zeolite sun protection lotion is easy to apply and does not leave a white film. Our Zeolite sun protection lotion offers immediate light protection with a natural light protection filter. It works purely physically and consists of mineral pigments that reflect and scatter sunlight. This type of light protection has advantages: it is environmentally friendly and does not have the side effects that synthetic light protection filters can have. Coconut oil penetrates the skin quickly without feeling fatty, making the skin soft and smooth. Lecithin is a fat-like active ingredient present in all cells. As it has excellent water-binding properties, lecithin is an especially good moisturiser and smoothing agent for dry skin. As an antioxidant and radical catcher, tocopheryl acetate (vitamin E) helps prevent skin-damaging impacts from external factors.
For thousands of years, bentonite (or montmorillonite) has been used in cosmetics and to stimulate self-healing powers. It absorbs unwanted substances and thus helps purify and refine the skin structure. Its ingredient allantoin is gentle, regenerating, cell-regenerating and keratolytic. It smoothens chapped and cracked skin and improves its skin moisture-retaining capacity. The desert plant aloe barbadensis is known for having more than 200 healthy ingredients, which, on the skin, have moisturising and softening effects and a beneficial influence on inflammatory processes.

Psyllium seed husk, also called psyllium, is known for its beneficial properties as a plant-based source to promote good digestion. In contact with liquid, the fibre swells resulting in a large increase of volume in mucilage and intestinal contents. This makes the bowel contents softer, which stimulates peristalsis and facilitates defecation. The advantage of psyllium seed husk over other fibre supplements, is its exceptionally high swelling capacity and the content of soluble mucilage. This contributes to a smoother intestinal passage of the intestinal contents. Ground psyllium husks are suitable as a supplement during pregnancy and nursing period. Finely ground psyllium seed husk have a higher swelling capacity and are therefore more effective than whole psyllium seed or normal psyllium husks, which leads to a smaller dosage. Our organic psyllium seed husk powder is quality tested in German laboratories, which are accredited in accordance to the requirements of the European Pharmacopoeia (Ph. Eur.) and are available in our shop as:

- Finely ground organic psyllium seed husk
- Organic psyllium seed husk capsules

QUESTIONS?

All of the statements above are not product-dependent, they are purely empiric and relate to the individual experiences of many users, therapists and scientists.

If you are interested in a personal consultation, please feel free to call or contact me.

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