

Esen Zeolite

Unlocking the Power of Natural Zeolite

With over 20 years of experience in Clinoptilolite mining, Esen Zeolite specializes in extracting and processing high-purity Clinoptilolite, a unique natural zeolite. Zeolites are minerals formed from the interaction of volcanic rocks and ash with alkaline water. They crystallize over thousands to millions of years, often in shallow marine basins, developing a porous structure and specific chemical properties that have a variety of industrial applications.

Located in Gördes, Turkey, our facility sits on a 55 million ton reserve, offering a steady supply of zeolite. The plant spans 5,000 square meters indoors on a 12,000 square meter plot, with a production capacity of 3,000 tons of zeolite monthly in eight different sizes. We ensure quality with daily sieve and moisture tests, and our safety measures include four strong magnets and a metal sensor to detect impurities.

Esen Zeolite's processing methods—such as crushing, grinding, and an advanced jet-plus-filter system—ensure a high level of purity in our zeolite products, catering to various industries.

Application Areas of Esen Zeolite

- Feed Additive
- Animal Bedding & Odor Remover
- Cat Litter
- Soil & Grass Conditioner
- Plant Defense
- Water Treatment
- Industrial Usage
- Medical Cosmetics
- Construction & Building
- Biogas Stations

Nature's Best for Your Garden's Rest!

Discover the transformative power of zeolite for plant growth and agriculture. Zeolite's unique properties offer effective and eco-friendly solutions, promoting healthier plants and a greener world for all.



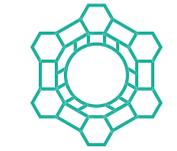
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Partnering with Nature for Plant Care

Klinomin Soil Conditioner Decontaminator



Boost Soil Quality for healthier plant growth and increased crop yields.

Water Absorber



Increase in water retention, conservation and nutrient leaching prevention.

Natural Zeolite for Plant Defence



Protect your plants with a natural barrier against insects.

Soil Conditioner - Decontaminator Klinomin

Esen's Zeolite's KLINOMIN is a highly effective soil conditioner and plant enhancer, thanks to its high Cation Exchange Capacity (CEC). It is a natural mineral that boosts water-holding capacity and is known for its unique ability to retain and release essential nutrients in the soil.

Why Choose Esen's Zeolite Klinomin?

- **Reduced Fertilizer Use**
Using KLINOMIN regularly can significantly reduce fertilizer use. Many growers find they can cut back on fertilizers after the first year of application, with even greater reductions in the second year. This leads to cost savings and a lower environmental impact.
- **Increased Crop Yields**
KLINOMIN's nutrient retention can significantly boost crop yields, especially in sandy or heavy soils where retaining nutrients is tough. It has been shown to increase yields by 25% to 75%, depending on the type of plant, offering a considerable boost to agricultural productivity.
- **Enhanced Flowering and Early Harvest**
KLINOMIN promotes better root health and provides a steady nutrient supply, encouraging healthier flowering in plants. This results in more vibrant blooms and, in some cases, earlier harvests, allowing growers to benefit from their crops sooner.
- **Soil Improvement**
KLINOMIN regulates soil humidity, keeping moisture at optimal levels without causing hardening or cracking. This is especially useful for compacted or high-salinity soils, creating a stable environment for plant growth.
- **Certified for Organic Agriculture**
KLINOMIN is certified for organic agriculture and can be used in various applications, including floristry, greenhouses, open-area vegetables, fruit trees, and industrial plants.

Water Absorber

Increase in water retention, conservation and nutrient leaching prevention

Zeolite has numerous advantages in the area of water retention, conservation, and nutrient leaching prevention. Zeolite is capable of holding up to 60% of its weight in water.

Reduced Water Consumption:

By adding zeolite to the soil, gardeners and farmers can reduce water consumption by preventing excessive evaporation and runoff, thus ensuring that plants have consistent access to water, even during dry periods.

Healthier Root Development:

Zeolite's ability to absorb and release water gradually helps to prevent waterlogging and root rot, promoting healthier root development and overall plant vigor. This feature is particularly beneficial in potted plants and container gardening, where maintaining proper moisture levels is essential for plant health.

Increased Water Filtration:

Zeolite can increase water infiltration by 7%-30% on gently sloped land and up to 50% on steeply sloped land. Soil moisture can be increased by 0.4%-1.8% in drought conditions and 5%-15% in general water situations. Consequently, overland surface runoff is reduced, in turn protecting lands from erosion.

Esen Zeolite for Plant Defence

Esen Zeolite offers an innovative solution for plant protection and defense against various biotic and abiotic stresses.

Why Choose Esen Zeolite for Plant Defence?

- **Natural Barrier**
Micronized zeolite's unique crystalline structure forms a barrier on leaves, protecting them from insects with piercing and sucking mouthparts. This barrier effectively reduces attacks from fungal pathogens and other harmful organisms.
- **Moisture Regulation**
Zeolite absorbs excess moisture, preventing over-watering and boosting plant resistance to stressors like high temperatures, UV rays, and sudden temperature changes.
- **Reduced Fly Formation**
The product absorbs ammonia, hydrogen sulfide, and mercaptans, reducing fly formation and unpleasant odors.
- **Fertilizer Efficiency**
Zeolite improves the use efficiency of fertilizers, allowing reduced application quantities while maintaining high plant health and yield.

Application Guidelines

KLINOMIN is a soil conditioner, not a fertilizer, that improves soil quality when combined with chemical or natural fertilizers. It should be mixed into the soil at root depth through hoeing, as it doesn't dissolve in water. For optimal results, consult a specialist to determine the correct usage rate, based on soil analysis, and follow advice from your dealer or agronomist.

Usage Areas

Esen Zeolite is versatile for protecting plants in various agricultural settings. It shields field crops, grapevines, fruit trees, and garden vegetables from pests, diseases, and environmental stresses. Additionally, it's beneficial in nurseries and greenhouses for safeguarding young plants and seedlings, as well as in landscapes and gardens to boost the health of ornamental plants and lawns while reducing damage from insects and harsh conditions.