

[KLANZ®]

Product Catalogue



naturally!
KLANZ
PLANTCARE



[Our Knowledge]

**We have been developing
plant-based substrates**

ow-how]

Developing purely for over 20 years

naturally!

KLANZ
PLANTCARE

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[Who We Are]

The KLANZ® Brand

Our company history began a good 20 years ago with the development of a mineral-only substrate based on pumice, lava and zeolite. On this basis, we were able to engineer plant substrates with a high water storage capacity, optimum air pore volume and ideal nutrient storage properties – the key features of our mineral substrates that have been used successfully for many years, such as KLANZ Vulkastrot, Vulkaponic and Vulkagran.

We have also developed granular, zeolite-containing and highly effective fertilizers possessing the positive properties of organic components such as humic acid granules or malt culms and high-quality fine zeolite. The products are granulated during production to ensure continuous long-term effects. Our mineral substrates, zeolite-containing fertilizers and soil conditioners are designed

based on our key priorities: high levels of quality, functionality and sustainability. Our experience has shown us that this is the only way to ensure a consistent and long-term supply of nutrients and water for optimum and long-lasting plant vitality.

We also offer other purely mineral or organic-mineral products and work “hand in hand” with our existing and potential customers to develop special plant substrates, fertilizers and soil conditioners that meet the highest requirements.

Our products are used on an international level and in many large-scale projects. We supply retailers, interior plant designers, botanical gardens and horticulturalists with our sustainable products in Germany, across Europe and even beyond.

Many botanical gardens in Germany and abroad value KLANZ substrates. Especially when the plants or crops place special demands on the mineral substrate.

The high market share of our mineral substrates is due not least to our in-depth expertise in the development of substrates, which we are happy to make available to our customers through personal consultation.

Cooperating with partners and customers who share the same high quality standards is particularly important to us.

Over the last two decades, we have been developing zeolite-containing mineral substrates, fertilizers and soil conditioners that all aim to improve the health of the soil and plants on a sustainable and long-term basis.



[Our] Group of Companies

KLANZ is integrated into a solid and owner-managed medium-sized group of companies together with our affiliates iNTERBiMS and GEBR. ZIEGLOWSKI.

We own the mines and therefore the valuable raw material deposits ourselves. This ownership, combined with our expertise as a manufacturer, developer and processor of the extracted raw materials, makes us an efficient and flexible high-performance supplier for the green industry.

The main components of our plant substrates are washed pumice, zeolite and lava. These three mixing components complement each other perfectly and are an ideal rooting space for all plants thanks to the selected grain size composition. Their excellent nutrient storage capacity and good pH buffering make these mineral substrates excellent planting media.

A range of additional mixing components are also available to meet customer requirements according to the customer's wishes and the needs of the different crops and plant species. Whether special fertilizers for a needs-specific nutrient supply or organic mixing components: There are many options and combinations possible.



iNTERBiMS refines and distributes all-natural, volcanic plant substrates and raw materials throughout Europe.

These include substrates based on pumice and lava, particularly mineral substrates / growing media, lawn substrates, tree substrates, green roof substrates as well as filling substrates, vegetation mat substrates and filter basin substrates.

iNTERBiMS also offers processed raw materials such as pumice, sifted pumice, washed pumice, lava and aggregates, building materials and filter materials for a wide range of applications.



GEBR. ZIEGLOWSKI specializes in the production of highly heat-insulating and sound-absorbing KLB lightweight concrete blocks for residential and commercial construction.

The company also produces concrete blocks for horticulture and landscaping, offering an extensive range of formwork blocks and heavyweight blocks for the construction of bulk material boxes.

Another line of business is the extraction and distribution of our own volcanic raw materials (pumice, trass, ...) as well as other mineral materials such as sand, gravel and grit.



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[Extraction]

Volcanic Raw Materials

Sustainability

Extraction in the Eifel region

Our volcanic raw materials, such as pumice and lava, are mined in the volcanic area of the Eastern Eifel region, which boasts around 100 volcanic centers that were active until around 13,000 years ago. The huge volcanic eruptions released large amounts of energy and left behind extremely high-quality raw materials optimally suited for building materials, industrial applications and naturally also for plant substrates.

Near-surface extraction

The volcanic rocks are a natural product of geological processes and are present in large quantities. These deposits are also very close to the surface, which allows for a highly efficient extraction.

Low processing intensity

Compared to other building materials or substrate additives, our volcanic raw materials require a relatively low processing intensity. Due to their natural characteristics, they can be used directly or with minimal processing. This reduces the energy consumption and environmental impact associated with production and processing.

Improving soil quality in greening without chemical additives

The volcanic raw materials improve the physical properties of the soil, such as drainage and aeration, without the need for chemical fertilizers or soil conditioners. This natural optimization of the soil structure promotes the growth of healthy plants and minimizes the use of potentially environmentally harmful synthetic interventions.

Durability and recyclability

Volcanic raw materials are very durable. They do not decompose, retaining their structural and physical properties over a long period of time. They are also recyclable. At the end of their useful life, they can be collected and reused instead of ending up as waste. This helps to reduce waste and conserve natural resources.

Regional extraction and short transport routes

The use of local resources reduces transport routes and the associated carbon emissions. Short transport routes are a key aspect of sustainability and help to minimize the ecological footprint of products.

Contributing to biodiversity

Responsible extraction and the subsequent recultivation of extraction areas contribute to the creation of new habitats for flora and fauna. By restoring landscapes after extraction, companies like KLANZ are doing their part to preserve and even improve the biodiversity in the region.

The raw materials used by KLANZ are a prime example of sustainable materials that protect the environment, support natural cycles and promote ecological diversity.

The entire group of companies is committed to the careful, environmentally friendly extraction of these mineral raw materials from the local region.

To reduce the use of fossil fuels, we use electricity from our own solar panels for sorting, processing and production. Only products that meet our high quality standards leave our plant in Kruff.

Our raw materials have several properties that make them particularly sustainable. This sustainability is a result of the combination of geological, ecological and economic factors that work together to ensure their resource-conserving and environmentally friendly use.

Recultivation

What is recultivation?

Recultivation is a central component of our corporate philosophy. It involves restoring landscapes that have been altered by the extraction of mineral resources or transforming them into new habitats for plants and animals. In contrast to renaturation, where nature regenerates itself, we specifically plan how former extraction areas can be revitalized. These measures contribute significantly to the preservation of biodiversity and create valuable biotopes.

Innovations for a green future

Our mineral substrates, fertilizers and soil conditioners aim to improve the health and structure of the soil on a sustainable basis. These products promote vital plant growth, thus improving the efficiency in agriculture and horticulture. Moreover, most of our products can be reused.

Selection of our partners

When selecting our partners, it is essential for us that they share our passion for environmental protection. We only work with companies that see recultivation measures not as a chore, but as an opportunity to actively protect the environment. This selection ensures that our entire supply chain meets our high sustainability and environmental standards.

Through our commitment to recultivation, the careful selection of environmentally conscious partners and the development of sustainable products, we are proactively working to protect the environment and contribute to a more sustainable future.



[Our] Quality Standards

At KLANZ, quality comes first at every step of our production process and in the selection of our raw materials. Our goal is to produce mineral substrates and fertilizers of the highest quality for indoor and outdoor greening.



The first step is the selection of raw materials. We only select the best raw materials to manufacture our mineral substrates. The mineral base materials must have an optimal structure and composition so that they are structurally stable in the long term and ensure long-lasting greening. When selecting our aggregates, we only use washed pumice from our own group of companies. During the washing process,

the pumice with a high air pore volume is separated from the heavy, low-quality pumice and impurities are washed away. The lava used is a particularly "light lava". This form is characterized by an extraordinarily large-pored surface, which gives the lava a high air pore volume. Our production processes are designed to preserve the natural properties of our raw materials in the best possible way.

By using state-of-the-art technologies and a team of experienced specialists, we ensure that our mineral substrates are processed gently. This guarantees not only their effectiveness, but also their durability and their ability to support healthy plant growth.

A particularly important aspect of mineral substrates is that they have a very low proportion of fines and elutriable content.



At KLANZ, we continuously strive to maintain and monitor our quality standards. Every step of our production process is subject to strict controls to ensure that our customers always receive their products in the usual KLANZ quality. Our substrates are tested by LUFA Nord West and examined for suitability in accordance with the Indoor Greening Guidelines of the German Landscape Research,

Development and Construction Society FLL. Our granular NPK fertilizers containing zeolite are also subject to regular quality controls. The fertilizers combine the positive properties of their organic components, such as humic substances, malt culm granules and high-quality fine zeolite to improve soil structure and nutrient storage and to regulate the pH value. In this way, the fertilizers achieve

a significantly higher cation exchange capacity to activate the full extent of their positive properties. At KLANZ, we endeavor not only to offer first-class products, but also to build a partnership with our customers based on trust, integrity and the joint pursuit of the best possible solution.

Volcanic Raw Materials

[Pumice]



Pumice from the Eifel region: A natural treasure for sustainable mineral substrates

The Eifel is a picturesque region in Germany that is not only known for its unique landscape and cultural history, but also for its geological treasures, in particular the volcanic raw material pumice. This porous rock, formed by the cooling of gaseous, foamed lava, plays a key role in the production of mineral substrates.

The natural properties of pumice

Pumice is unique: It features a porous structure while being lightweight at the same time. These properties are a result of the rapid cooling of the lava. In this process, the gases that had dissolved in the molten mass escaped, leaving behind a sponge-like texture. Due to its volcanic past, the Eifel region contains rich deposits of this natural material. Pumice is characterized by its high water permeability and good water storage capacity.

The role of pumice in the production of mineral substrates

Pumice plays a key role in the production of mineral substrates. Its unique physical properties make it an ideal component for substrates used for container plantings and building greening.

Improved drainage

The porous nature of pumice enables excellent drainage. This property is a particular advantage when it comes to avoiding waterlogging and the associated root diseases. In container plantings, where a controlled water balance is crucial, pumice offers ideal conditions for healthy root growth.

Air circulation and root aeration

The airy pores of pumice ensure optimal air circulation in the root area. This promotes the oxygen supply to the roots, which is essential for respiration and therefore for overall plant growth.



Long-term structural stability

Unlike organic substrates, which can decompose over time, pumice retains its structure. This **longevity** ensures permanent support for the root system, which is particularly advantageous for the long-term greening of buildings and urban spaces.

Low salt content

Substrates made from volcanic raw materials have low salt contents, usually around 0.2 g/L (KCL), which is significantly lower than comparable products based on fired granules. Particularly for salt-sensitive crops, this is a major advantage.

Sustainability

Pumice is extracted in the Eifel region with a focus on environmental friendliness and sustainability. As a natural, abundant and recyclable raw material, pumice helps to reduce environmental impacts and supports sustainable horticulture concepts.

Versatility

Pumice is adaptable and can be used for a variety of plant species and greening techniques. Its physical properties can be used in different mixtures as required to create optimum growing conditions for a wide range of plants.

Pumice from the Eifel region is not only a high-quality product for modern garden and landscape design, but also contributes to environmental protection and the promotion of sustainable practices. Thus, Pumice is an excellent example of the intelligent combination of nature, technology and sustainability in horticulture.

Volcanic Raw Materials

[Zeolite]



What are zeolites?

Zeolites are microporous, crystalline aluminosilicates of mineral origin characterized by a unique structure. This structure consists of a three-dimensional framework of SiO_4 and AlO_4 tetrahedra, connected to each other via oxygen atoms. The substitution of silicon by aluminum in the crystal structure creates negatively charged frames, which are balanced by the presence of cations such as potassium, sodium, calcium and magnesium. These cations are located in the pores and channels of the zeolite and can be easily exchanged for other cations, making zeolites excellent ion exchangers.

Due to their properties as ion exchangers, zeolites can have positive effects on the soil and thus indirectly on plant growth:

Water storage:

Due to their porous structure, zeolites can store large quantities of water and release it back into the environment as required. This supports the regulation of soil moisture – a particular advantage in dry regions.

Nutrient storage and release:

The ability of zeolites to exchange cations enables them to chemically store nutrients such as nitrogen, potassium and magnesium and release them slowly to the plants as required. This leads to a more efficient use of fertilizers and a reduction in nutrient wastage.

The term zeolite is generally used to describe rocks that consist mainly of minerals from the zeolite group. They belong to the tectosilicates. Their outstanding properties can be explained by their mineralogical structure, which, in a simplified manner, can be divided into three components:

- **Three-dimensional, negatively charged crystal lattice of silicon and aluminum oxide with a pronounced pore system**

- **Cations for charge equalization**

- **Water inside the cavities**



Improvement of the soil structure

The addition of zeolites can improve the soil structure by increasing aeration and reducing compaction. This promotes root development and improves water and air flow in the soil.

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pH value regulation

Zeolites can help to stabilize the pH value of the soil. This is an important factor for the growth of many plants.

Effect on plant growth

The positive effects of zeolites on the soil indirectly promote plant growth:

Improved nutrient availability

By storing and releasing nutrients in a controlled manner, plants can absorb them more efficiently.

Reduced stress during dry periods

The ability of zeolites to store water and release it when required helps plants to survive dry periods better.

Disease prevention

Improving soil structure and aeration can help reduce the risk of root diseases.

Overall, zeolites can be used as soil conditioners to optimize the physical and chemical properties of the soil and thus increase plant growth and yield.

Volcanic Raw Materials

[Lava]

Lava, a volcanic rock that is formed when magma solidifies on the surface of the earth, has become a valuable raw material in the production of mineral substrates.

Its unique porous structure, resulting from the rapid cooling of magma, makes lava an ideal material to improve soil quality and promote plant growth.

The role of lava in the production of mineral substrates is based primarily on its ability to efficiently store water and nutrients, while at the same time ensuring excellent drainage. These properties are crucial for creating a healthy root environment. Due to its porous texture, lava enables optimum air circulation in the root area to improve the oxygen supply to the plant roots and reduce the risk of root rot.

Another key benefit of lava is its long-term stability. Unlike organic substrates, lava does not decompose, thus retaining its structural properties for years. This longevity ensures a lasting improvement in soil structure without the need to regularly replace the substrate. In addition, lava contributes to the nutrient supply for plants due to its mineral composition.

While lava itself only contains small amounts of soluble nutrients, it can serve as a natural carrier for fertilizers. The porous cavities in the rock physically store fertilizers, which are then slowly released to the plants, ensuring an efficient supply of nutrients.

In practice, lava is used in a variety of horticulture and landscaping projects. It is not only used in pure mineral substrates, but also as an additive in potting soils and as a drainage layer in planters and beds. Its versatility and environmental compatibility make lava a preferred material for sustainable horticulture and landscaping concepts.



Humic Substances

What are humic substances?

Humic substances, an essential component of organic soil material, are high-molecular organic compounds that result from the decomposition of plant and animal residues.

Humic substances play a central role in the ecosystem, particularly with regard to soil fertility and nutrient cycles.

The group of humic substances can be divided into humic acids, fulvic acids and humin itself, with each of these substance classes having unique properties and effects on the soil and plants.

Humic acids improve the soil structure by promoting the formation of soil aggregates for example, which in turn improve the aeration and water retention in the soil. Fulvic acids play an important role in the nutrient uptake of plants as they chelate metal ions, thus increasing the availability of nutrients for the plants. The targeted application of humic substances helps to improve soil quality on a sustained basis, increase the resistance of plants to stress factors and ultimately increase crop yields and plant quality.

Effects on soil and plant growth

Our plant substrates with humic acid granules and our KLANZ Universal Fertilizer use a granulate that ensures an optimum pH value for the plants, soil life and soil structure. KLANZ humic acid granules consist of highly decomposed raised bog peat featuring a high content of humic substances. These humic substances are difficult to break down due to their high-molecular structure and are therefore effective in the soil over a long period of time.

Tests have shown that humic substances contribute to increased root formation. For many years, substrates produced using highly decomposed peat have been used successfully for rooting cuttings that are difficult to root. Humic substances can also bind trace elements and thus protect them from being washed out. Once applied, the many positive properties of peat-zeolite granules fertilized with nutrients can be seen in a clear, long-lasting promotion of growth and soil improvement.

We also use peat-free alternatives of course, so please feel free to contact us to inquire about this option.



Mineral Substrates

[Container Plantings and Building Greening]

Our mineral substrates are all-natural products and can be fully returned to the ecological cycle.

Mineral substrates are increasingly being used for houseplants, indoor and outdoor wall greening and in garden and landscape design. It is also used in aquarium and terrarium care to create a stable and attractive environment for aquatic and soil organisms. Our mineral substrates consist of the aggregates zeolite, pumice and lava. The raw materials pumice and lava are of volcanic origin and are extracted in the volcanic Eifel region. The use of these two raw materials is extremely valuable from an ecological perspective, as both have a very high pore volume and do not require any further artificial, energy-intensive processing. Our substrates are free from harmful substances and insects and are therefore also suitable for allergy sufferers.

Mineral substrates offer significant benefits for the growth of plants in containers and building green areas, especially where the conditions for plant growth need to be carefully controlled and optimized. Substrates consisting of inorganic materials such as lava, pumice, perlite or vermiculite are an excellent choice for modern greening projects.

Improved drainage and prevention of waterlogging

Thanks to their porous structure, mineral substrates ensure excellent drainage, which is crucial for the health of plant roots. They effectively prevent waterlogging, thus reducing the risk of root rot and other root diseases. This property is particularly important in container plantings, where there is an increased risk of water accumulation because of the limited amount of soil and depth.

Optimum air circulation

The porous nature of these substrates enables an excellent aeration of the root area. Good air circulation is essential for the absorption of oxygen by the roots, an important factor for healthy plant growth and development. Air quality is often a major challenge, especially in urban greening projects where mineral substrates provide clear benefits.

Stable physical structure

Mineral substrates are characterized by their high structural stability, which is maintained over long periods of time. In contrast to organic substrates, they do not decompose. This means that they retain their physical properties, therefore providing constant support for plant roots. This longevity makes them a cost-effective solution for building greening, where replacing the substrate can be difficult and expensive.

Nutrient management

Although mineral substrates themselves often contain few nutrients, they offer good conditions for efficient nutrient management. They can be enriched with nutrient solutions to meet the specific needs of the plants. Their ability to store and gradually release water and the dissolved nutrients ensure a controlled supply for plants.

Suitability for a wide range of plant types

Mineral substrates are suitable for a wide range of plants, from succulent xerophytes to moisture and shade-loving plants. This makes them a versatile choice for diverse greening projects, including rooftop gardens, vertical gardens and indoor greening.

Environmentally friendly

Mineral substrates are natural or recycled materials that offer an environmentally friendly alternative to peat and other less sustainable substrates. Their use supports sustainable horticulture and landscaping initiatives without causing major environmental impacts.

The sum of these benefits explains why mineral substrates are becoming increasingly popular for container planting and building greening projects. They provide a reliable basis for healthy plant growth, while at the same time supporting sustainability and urban green space development goals.





KLANZ®

MINER SUBST

Our basis for long-lasting indoor



AL RATES

and outdoor greening with plants



Vulkaponic®

Vulkaponic is a pure mineral mixture of pumice and high-quality zeolites. This makes the substrate light and particularly suitable for indoor greening with containers as well as water retaining systems.

THE BENEFITS

- Permanent structural stability due to high grain strength
- High water storage capacity of over 40% by volume
- Optimum air pore volume of over 35% by volume
- Substrate is reusable
- Zeolites store nutrients that are released to the plant as required
- No change in the zeolites, not even in the long term
- pH value regulation

APPLICATION

Vulkaponic has an excellent water storage capacity and a high nutrient storage capacity. The substrate is therefore light and particularly suitable for indoor greening. Also suitable as a hydroponic substrate and for all water-storing systems. When repotting, please note: Remove any loose material from the plants, place them in Vulkaponic at the same height and water well.

Our substrates are always unfertilized; we recommend using our KLANZ Vulkapower Orange fertilizer once or twice a year.

Vulkaponic®



- Substrate for houseplants
- Ideal for container plantings up to 50 cm pot diameter
- High water storage capacity of over 35% by volume
- Optimum air pore volume of over 25% by volume
- Weight approx. 750 kg per m³



— DELIVERY FORM —

Loose, FIBC, 25 L bag, 4.5 L bucket

Vulkaponic®



- Substrate for indoor greening
- Ideal for single-layer indoor greening in accordance with FLL guidelines
- High water storage capacity of over 30% by volume
- Optimum air pore volume of over 35% by volume
- Weight approx. 730 kg per m³



— DELIVERY FORM —

Loose, FIBC, 25 L bag, 11 L bucket

Vulkaponic®

[mit Humingranulat]



- Substrate for indoor greening
- Ideal for single-layer interior greening in accordance with FLL guidelines
- Reduced pH value of approx. 5.8 for plants that prefer an acidic environment
- High water storage capacity of over 30% by volume
- Weight approx. 730 kg per m³



— DELIVERY FORM —

Loose, FIBC, 25 L bag

Vulkaponic®



- Coarse substrate for indoor greening for large plants
- Ideal for single-layer indoor greening according to FLL guidelines
- Can also be used as a drainage layer in multi-layer greening
- Optimum air pore volume of over 40% by volume
- Weight approx. 720 kg per m³

— DELIVERY FORM —

Loose, FIBC





Vulkastrat®

Vulkastrat is a pure mineral substrate made of pumice, zeolite and lava in grain fractions of 2-8 mm. Zeolites are natural ion exchangers, i.e. minerals that can absorb and release substances. Therefore, no organic substances are required when using zeolites. Due to their high exchange

capacity, zeolites fulfil a similar function to humus and clay in natural soils. In addition to good nutrient storage, the mixed-in high-quality zeolites ensure a stable pH value and odorless water.

THE BENEFITS

- Permanent structural stability due to high grain strength
- Good water storage and optimum air pore volume at the same time
- Particularly suitable for water-storing systems
- Substrate is reusable
- Zeolites store nutrients that are released to the plant as required

APPLICATION

Vulkastrat has a good water storage capacity and a high nutrient storage capacity. The substrate is approx. 25% heavier than Vulkaponic and can also be used for indoor greening. Due to its higher weight, it provides plants with a less developed root system with special support in the substrate structure. Also suitable as a hydroponic substrate and for all water-storing systems. When repotting, please note: Remove any loose material from the plants, place them in Vulkastrat at the same height and water well. Our substrates are always unfertilized; we recommend using our KLANZ Vulkapower Orange fertilizer once or twice a year.



Vulkastrat®



— DELIVERY FORM —
FIBC, 25 L bag, 4.5 L / 11 L bucket

- Substrate for houseplants
- Ideal for container plantings up to 50 cm pot diameter
- High water storage capacity of over 35% by volume
- Optimum air pore volume of over 25% by volume
- Weight approx. 950 kg per m³



Vulkastrat®



— DELIVERY FORM —
FIBC, 25 L bag, 11 L bucket

- Substrate for indoor greening
- Ideal for single-layer indoor greening in accordance with FLL guidelines
- Ideal for container plantings for pot diameters of up to 50 cm
- High water storage capacity of over 30% by volume





[Humic Acid Granules]
Vulkastrat®

Vulkastrat with Humic Acid Granules has the same positive properties as our Vulkastrat. However, the humic acid granules mixed in reduce the pH value of the substrate to 5.4, thus creating an acidic soil environment.



— DELIVERY FORM —
Loose, FIBC, 25 L bag

**THE BENEFITS**

- Substrate for indoor greening
- Ideal for single-layer indoor greening in accordance with FLL guidelines
- Reduced pH value of approx. 5.4 for plants that require an acidic environment
- High water storage capacity of over 30% by volume
- Optimum air pore volume of 30% by volume
- Weight approx. 930 kg per m³



[Propagation Substrate]
Vulkastrat®

Vulkastrat 0.5-2 Propagation Substrate is a high-quality mineral substrate developed for the propagation of young plants/cuttings and for growing seedlings. Our propagation substrate consists of washed pumice, lava and zeolite (clinoptolite), each with a grain size of 0.5-2mm. The particularly fine grain size of our propagation substrate makes it easier to prick out the seedlings later. The mineral substrate is also ideal for cultivation in cutting plates and seed trays and can also be used very well to grow and care for cacti and succulents in containers up to 7 cm in diameter.



— DELIVERY FORM —
FIBC, 25 L bag, 4.5 L bucket

**THE BENEFITS**

- Structurally stable substrate with an optimum air and water balance
- Purely mineral, therefore unattractive for pests and fungi
- Ideal for pricking
- Particularly fine-grained substrate
- Excellent for cultivation in cutting plates and seed trays
- Unfertilized substrate ensures rapid root development, allowing for better nutrient absorption after transplanting and faster growth



[Cacti]

Vulkastrat®

A **mineral cactus substrate** usually consists of a mixture of mineral materials such as pumice or lava granules. It is used to plant cacti and other succulents outdoors or in a pot. The substrate should be well draining to prevent the roots of the plants from becoming moist and rotting. It should also not be too rich in nutrients, as cacti usually grow in nutrient-poor soil in their natural environment. Our Vulkastrat 1-4 Cactus Substrate is a new high-quality cactus substrate specifically developed for the care of cacti and succulents.

Our cactus substrate contains washed pumice, lava and zeolite (clinoptilolite), each with a grain size of 1-4 mm. These mixed-in high-quality mineral aggregates ensure ideal nutrient and water storage, a stable pH value and are optimally adapted to the needs of cacti and succulents. This mineral substrate simplifies successful plant care, as it mitigates any errors made in the process.

THE BENEFITS

Drainage A good drainage system is crucial to the health of cacti and succulents, and a cactus substrate is usually designed to allow excess water to drain away quickly to prevent the roots of the plants from becoming moist.

Low nutrient content With its low-nutrient formula and optimized grain size distribution, Vulkastrat cactus substrate is optimally tailored to the needs of cacti and succulents.

- Substrate for cacti and succulents
- A mineral substrate made of pumice, lava and zeolite
- Neutral pH value of approx. 7.0
- Weight approx. 950 kg per m³

APPLICATION

Vulkastrat cactus substrate has a high pore volume and good water drainage, which is ideal for cacti and succulents. It also provides excellent support in plant pots, even for plants with less developed root systems.

When repotting, please note: Remove any loose material from the plants, place them at the same height in Vulkastrat Cactus Substrate and water well.



— DELIVERY FORM —
FIBC, 25 L bag, 4.5 L / 11 L bucket



[Orchids]

Vulkagran®



— PLUS —

Specially developed to meet the demanding needs of these exotic beauties, our substrate offers the perfect balance of drainage, air circulation, moisture and nutrient supply – everything orchids need to thrive, be healthy and develop their magnificent flowers. Our mineral orchid substrate consists of a unique mixture of finely balanced mineral components that optimally support and aerate the roots of orchids. The porous structure of the substrate effectively drains excess water to prevent waterlogging and minimize the risk of root rot.

Our mineral orchid substrate is the perfect choice to provide orchids with the best possible care and help them grow.

Vulkagran PLUS is a high-quality orchid substrate, ideal for all orchid species. It consists of lava, pumice, zeolites and KLANZ Universal Fertilizer. The fertilizer adds the necessary humic acids, nutrients and trace elements to the substrate.

THE BENEFITS

- Substrate for all orchid species
- A mineral substrate consisting of pumice, lava, zeolite, fertilizer and humic acid granules
- High humic acid content for good root growth
- Slow and steady release of nutrients from the granules
- Weight approx. 950 kg per m³

APPLICATION

When repotting orchids into our mineral orchid substrate, please note: Remove the old plant substrate as completely as possible. If necessary, carefully remove fine crumbs with water. Then cut off all dried and damaged roots directly at the base with pointed scissors. Old flower stems can also be removed. Then place the orchids into the orchid substrate at the same height. Gently tap the pot several times during this process to ensure an optimal distribution of the orchid substrate. Then water carefully. As soon as the roots are anchored in the orchid substrate, the orchids can be submerged again. The mineral orchid substrate is unfertilized.



— DELIVERY FORM —
FIBC, 25 L bag, 4.5 L / 11 L bucket



[KLANZ®]

Perennials Substrate

Our high-quality KLANZ Premium Perennials Substrate for blooming gardens and green spaces is carefully composed on the basis of mineral and organic raw materials to provide perennials with an the ideal environment. With balanced mixing components and high-quality zeolite, our substrate ensures that plants are optimally nourished for long-lasting growth. The finely tuned structure

of our Perennials Substrate promotes optimum air circulation in the root area and supports the development of vigorous perennials with magnificent flowers that will be a joy to look at.

THE BENEFITS

KLANZ Premium Perennials Substrate is a peat-free planting substrate using selected organic raw materials as well as pumice, lava and zeolite. It is suitable as a planting substrate in vegetation areas for perennials, shrubs, summer flowers and geophytes.

- As a planting substrate for surface application on vegetation areas
- Good water and nutrient storage due to volcanic aggregates and zeolite, high water retention capacity, little settlement
- Optimal root development, storage of nutrients due to zeolite
- Good and long-term structural stability thanks to mineral components
- Weight approx. 760 kg per m³



— DELIVERY FORM —
Loose, FIBC, 25 L bag





[KLANZ®]

Pond Substrate



Our high-quality mineral KLANZ Pond Substrates have been specially developed as planting and filter substrates. Our Pond Substrates with zeolite store nutrients from the water in the substrate body, making them available again for the plant roots. This effectively minimizes the formation of algae in the water. KLANZ Pond Substrates contribute to an optimum ecological balance in the pond and ensure optimum water quality.

Properties of our Pond Substrate:

Biological filtration: Our Pond Substrate consists of selected volcanic raw materials and high-quality zeolite, which promote optimum biological filtration. They support the removal of pollutants from the water and help to improve water quality.

Structurally rich texture: The structurally rich texture of our Pond Substrate provides an ideal habitat for a wide range of pond life, including beneficial bacteria, snails and other organisms that contribute to the natural cleaning of the pond.

Long-term durability: Our Pond Substrate is designed to retain its structure and function over the long term. It is resistant to decomposition and provides lasting support for the biological activity in the pond.

APPLICATION AREAS

Swimming ponds, garden ponds with and without fish

KLANZ Pond and Filter Substrate 4-16 mm:

- Ideally suited as a filter substrate in swimming ponds
- With zeolite to store nutrients and adsorb pollutants
- Balanced grain size distribution, good flow in the substrate body
- Optimal conditions for microorganisms that support water cleaning
- Grain size 4-16 mm
- Weight approx. 980 kg/m³

KLANZ Pond and Plant Substrate 1-4 mm (not shown):

- Ideally suited as a planting substrate in swimming ponds
- With zeolite to store nutrients and optimize plant growth
- Supports aquatic plant nutrition
- Provides a firm hold for aquatic plants
- Grain size 1-4 mm
- Weight approx. 1,100 kg/m³



— DELIVERY FORM —
Loose, FIBC





KLANZ FERTILIZERS

Highly efficient nutrients

KLANZ fertilizers feature a high zeolite content. Together with selected organic aggregates, they guarantee a highly efficient storage of nutrients and water, which are then available to the plants as required. Thanks to the high grain stability, the nutrients can neither be washed out by rain nor burnt by the sun.

KLANZ fertilizers provide optimal care and strength for trees and shrubs, fruit, vegetable and flowering plants.



Z[®]
FERTILIZERS

nutrient and water storage

[KLANZ®]

Universal Fertilizer

KLANZ Universal Fertilizer provides long-lasting effects and combines the positive properties of humic acid granules and high-quality fine zeolites (clinoptilolites) with a nutrient composition of 11 - 3 - 5 + 1.5 and 0.1 % iron and micronutrients.

These materials are carefully mixed and granulated. This results in granules with high grain stability that ensures the fertilizer's long-term effects.

THE BENEFITS

KLANZ Universal Fertilizer increases the humus content of the soil, its nutrient storage capacity and the pH stabilization in the long term while activating soil life. The balanced long-lasting nutrient supply benefits your plants, including lawns, trees and shrubs, perennials as well as fruit and vegetables.

- pH value 4.0 with humic acid granules
- With high-quality zeolite to bind nutrients in the soil
- Balanced nutrient formulation with micronutrients
- Promotes soil life



— DELIVERY FORM —
FIBC, 20 kg bag, 2.5 kg / 6 kg bucket

APPLICATION

Application amounts of 30-80 g/m², depending on the nutrient requirements of the plants. The grain size composition of 0.5-4.5 mm is designed for the application with standard spreaders.

[KLANZ®]

Universal Fertilizer

FORMULA II

KLANZ Universal Fertilizer Formula II provides long-term effects as an organic mineral NPK fertilizer that combines the positive properties of malt culms and high-quality fine zeolites (clinoptilolites) with a nutrient composition of 11 - 3 - 5 and 3% S, 0.1% iron and micronutrients.

Contains plant hormones and growth components extracted from malt culms. These substances support healthy plant growth and increase the root mass of fertilized plants by up to 30%.

THE BENEFITS

The improved root system and the vitalizing properties of the fertilizer give the plants greater stability, better resistance to drought stress and improved mechanical resilience.

- With malt culms to promote fine root development
- With high-quality zeolite to bind nutrients in the soil
- Balanced nutrient formulation with micronutrients
- Very well-suited for green roofs



— DELIVERY FORM —
FIBC, 20 kg bag, 2.5 kg / 6 kg bucket

APPLICATION

Application amounts of 30-80 g/m², depending on the nutrient requirements of the plants. The grain size composition of 0.5-4.5 mm is designed for the application with standard spreaders.



[KLANZ®]

Autumn Fertilizer

KLANZ Autumn Fertilizer is a slow-release fertilizer to strengthen plants before winter dormancy. Suitable for all crops and lawns.

The nutrient composition is perfectly tailored to the needs of plants in late summer and fall.

THE BENEFITS

With its high potash content, KLANZ Autumn Fertilizer perfectly complements the KLANZ Universal Fertilizer. At the end of the vegetation period, lawn grasses, perennials and woody plants still store nutrients. However, as these are no longer available in sufficient quantities in the soil solution, it is important to re-fertilize with a potash-rich fertilizer with trace elements.

- Potash-rich fertilizer, especially for autumn fertilization of planting areas and lawns
- With high-quality zeolite to bind nutrients in the soil
- Potash-rich nutrient formulation with micronutrients
- Promotes soil life

APPLICATION

Application amounts of 30-80 g/m², depending on the nutrient requirements of the plants. The grain size composition of 0.5-4.5 mm is designed for the application with standard spreaders.



— DELIVERY FORM —
17.5 kg bag, 3 kg / 7 kg bucket



[KLANZ®]

Liquid Fertilizer

KLANZ Liquid Fertilizer Complete Nutrition NPK 7-3-6+Sp. is a liquid fertilizer with micronutrients for indoor, balcony and potted plants. Thanks to its immediate and long-term effects, it ensures long-lasting lush blossoms and crisp green leaves. With its combination of nutrients with trace elements, KLANZ fertilizer ensures optimum plant nutrition and therefore magnificent plants and flowers. An extra amount of nitrogen ensures strong and healthy growth. Important nutrients and growth substances promote vegetation phases and strengthen resistance against diseases and pests.

— DELIVERY FORM —

1 L bottle, canisters in various sizes and 1,000 L IBC container on request

THE BENEFITS

- Balanced NPK nutrient combination of 7-3-5
- Micronutrients for growth and green leaves
- Also suitable as a fertilizer for water storage containers
- Available in many container sizes

APPLICATION

Add approx. 12 ml (1/2 capful) of fertilizer to 2 L of irrigation water. For houseplants, fertilize approx. once a week during the growing season (March to October) and once a month in the winter months. Fertilize balcony and potted plants twice a week (May to August). Shake before use.



[KLANZ®]

Vulkapower

— ORANGE —

KLANZ Vulkapower Orange is a slow-release fertilizer for use in container plantings, nurseries, potted plants, hanging baskets and planting areas as well as for trees and woody plants in horticulture and landscaping. Vulkapower Orange with controlled release offers balanced plant nutrition thanks to its nutrient composition. With an effect lasting up to 8 months, Vulkapower helps to prevent nutrient deficiencies or oversupply, which can impair the growth and health of plants. The result is healthy and strong plants.

THE BENEFITS

- Balanced NPK nutrient combination of nutrients 15-11-14
- 2% magnesium for healthy green leaves
- Important micronutrients for stable growth
- Also suitable as a fertilizer for water storage containers
- Effective for up to 8 months

APPLICATION

For use in indoor greening and container plantings with mineral substrates, mix 150-300 g per 100 liters of substrate volume into the substrate in the plant container close to the surface. For outdoor use in planting areas or nursery crops, mix in 20-70g per m² depending on the type of plant and soil conditions. Apply the fertilizer to outdoor crops in early spring.



— DELIVERY FORM —
FIBC, 25 kg bag





KLANZ[®]

SOIL CONDITIONING

To promote soil li



SOIL CONDITIONERS

Life and soil fertility



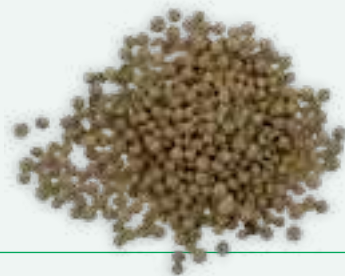
[KLANZ®]
Soil Activator

KLANZ Soil Activator regenerates the soil and prevents soil fatigue in the long term. Its unique composition revitalizes the soil on a sustained basis and stabilizes the pH value. Its excellent storage of nutrients and its needs-based release into the soil prevents fertilizer leaching and helps to protect the groundwater.

KLANZ Soil Activator consists of high-quality organic and mineral raw materials as well as trace elements that ensure strong and long-lasting plant growth. Repeated use of KLANZ Soil Activator results in long-term humus formation.



— DELIVERY FORM —
 20 kg / 10 kg bag



APPLICATION

- New plants and rehabilitation – 100 g/m²
- Existing areas and conservation – 50 g/m² annually
- For introduction into balcony boxes and planters – 30 g/ 10 l annually

Can be applied year-round. Also suitable for flowers, trees, shrubs and vegetable plots. Water well in dry weather.



[KLANZ®]
Premium Lime

KLANZ Premium Lime ensures a healthy lawn, improving nutrient availability, soil structure and biological soil activity. The high magnesium content, a central component of chlorophyll formation, promotes a beautiful green lawn color. Premium lime is suitable for lawns, ornamental and kitchen gardens.

The soft lime grains dissolve extra fast, penetrating quickly into the upper soil structure and developing their effects rapidly. The uniform grain size ensures even distribution and results in a homogeneous spreading pattern.

APPLICATION

Depending on the soil pH value 1-2 times a year:

- Maintenance liming: 1x in spring with 100 g/m²
- Lime stabilization at pH value < 5.5: 1x in spring and 1x in fall with 100 g/m² each
- Do not spread during very hot and dry periods

COMPONENTS

Natural magnesium lime, 61% calcium carbonate, 32% magnesium carbonate, 55% components with alkaline effects, evaluated as CaO (neutralization value).



— DELIVERY FORM —
 20 kg / 10 kg bag





[KLANZ®]

Vulkagran®

— G —

Vulkagran G is a sustainable soil conditioner consisting of zeolite and volcanic rock. It ensures optimum and long-term growth conditions for lawns after scarifying/aerification.

Vulkagran G stores nutrients and water, regulates the pH value, brings air into the soil, inhibits fungus growth and increases the shear strength of the lawn. Vulkagran is also ideal as a high-quality aggregate to mix into substrates.



THE BENEFITS OF VULKAGRAN® G

- Stores nutrients and water
- Ensures good aeration
- Regulates the pH value
- Increases the shear strength of the lawn
- Is anti-fungal

APPLICATION

Application amounts:

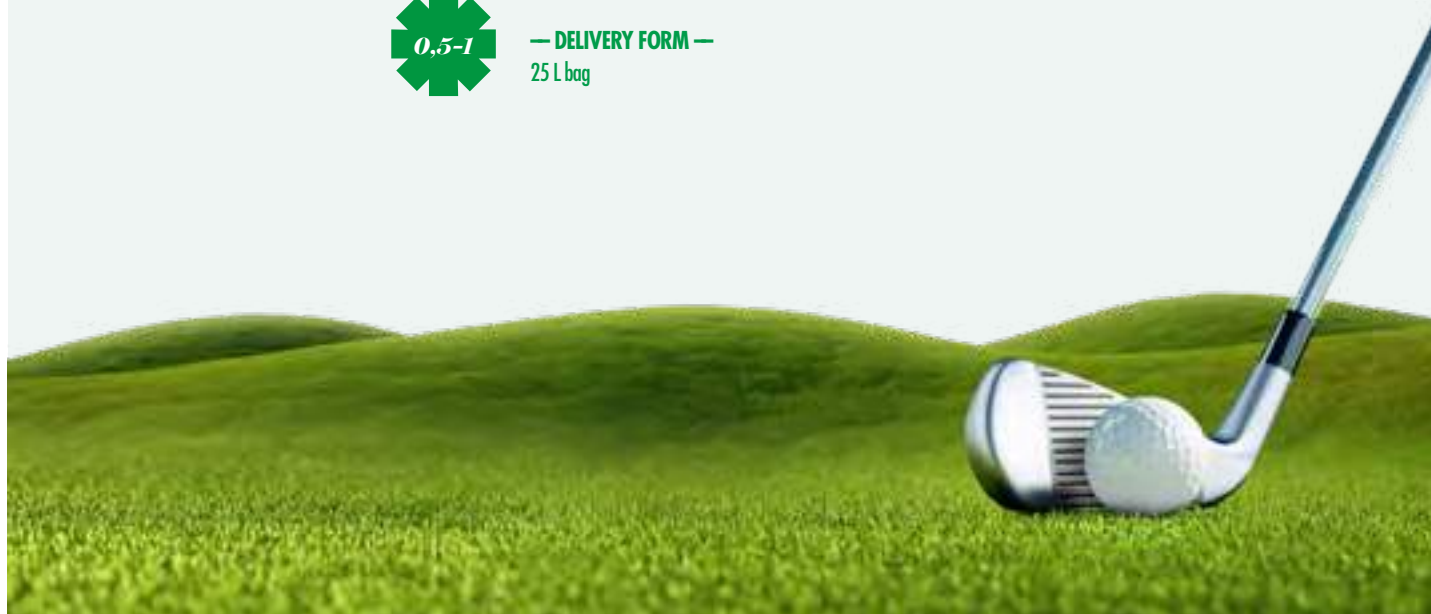
100 g - 300 g/m² for lawns;

5 kg - 8 kg/m³ for substrate & soil mixtures

Can be applied by hand or in standard spreaders and in any weather or soil moisture.



— DELIVERY FORM —
25 L bag





KLANZ®

VOLO GRA

High quality raw material

ANIC AINS

als for long-lasting green

[KLANZ®]
Washed Pumice

We offer high-quality washed pumice in various grain sizes from our own production in the Eifel region.

Perfect drainage: Washed pumice is known for its excellent drainage capacity. The use of washed pumice in the substrate mix ensures the efficient draining of excess water.

Optimum aeration: The porous structure of washed pumice enables the optimum aeration of the roots. This promotes the gas exchange in the root area and supports healthy plant development.

Neutral pH value: Washed pumice has a neutral pH value, which helps to keep the pH value of your substrate mix stable.

Long-term durability: Unlike organic materials, washed pumice does not decompose over time. This means that the structure of the substrate mixture remains stable in the long term.

GRAIN SIZES

- 0.5-2 mm
- 2-5 mm
- 4-8 mm
- 8-16 mm

FORM OF DELIVERY

25 L bag, FIBC



[KLANZ®]
Zeolite

The benefits of zeolite for the soil

Fertilization leads to an accumulation of nutrients in the soil solution. This high nutrient content, which the plants usually cannot fully absorb immediately, is offset by a low concentration in the zeolite. This means that some of these nutrients are adsorbed in the crystal lattice of the zeolite rock, which protects them from decomposition/conversion or leaching. When the nutrient concentration in the soil solution drops, the zeolite releases the nutrients again for the plants to absorb. This process is constantly repeated without the zeolite being consumed. KLANZ Zeolite is of excellent quality, featuring a high clinoptilolite content of >92%.

THE BENEFITS

- Natural nutrient store
- pH value stabilization
- Reduced leaching losses of nutrients
- Increased water storage
- Zeolite function is permanent (sustainability)

GRAIN SIZES

- 0.5-1 mm
- 1-2.5 mm
- 2-5 mm
- 4-8 mm
- 8-16 mm

FORM OF DELIVERY

25 L bag, FIBC



[KLANZ®]

Lava

KLANZ Lava Grains. Our Lava Grains are available in a wide range of grain sizes and colors. As a natural volcanic rock, they are ideally suited as a soil conditioner, mixing component for substrates and as a mineral mulch for planting and shrub areas.

Durability: Due to their natural composition, Lava Grains are extremely durable and resistant to the elements.

Versatile applications: From substrate mixes, improving soil structure and water retention to covering garden beds and decorative accents, Lava Grains offer a wide range of applications.

Water permeability: The porous structure of Lava Grains enables excellent water permeability, which contributes to soil aeration and the prevention of waterlogging.

Our product range includes:

Red-brown lava: Vibrant red-brown tones give your projects a warm and inviting feel.

Black lava: Classic and elegant, ideal for modern designs and contrasting accents.

GRAIN SIZES

- 2-4 mm
- 2-8 mm
- 8-16 mm
- 16-32 mm

FORM OF DELIVERY

25 L bag, FIBC



[KLANZ®]

Humic Acid Granules

KLANZ Humic Acid Granules. Our Humic Acid Granules are a high-quality soil conditioner specifically developed to optimize soil structure and promote healthy plant growth. Made from natural humic acids, our granules offer a wide range of benefits for gardens, beds and houseplants.

The application of our Humic Acid Granules improves the soil structure on a sustained basis by increasing soil fertility and supporting

the nutrient uptake of plants. The humic acids it contains promote soil life and improve the water retention capacity of the soil, which leads to more efficient water use and better aeration.

Regular use of our Humic Acid Granules will lead to improved root development, stronger plants and increased resistance to diseases and stress factors. It also contributes to the activation of micro-organisms in the soil, resulting in a natural improvement in soil structure and the regulation of the pH value.

FORM OF DELIVERY

25 L bag, FIBC





Planting Substrate

Green Roof

Economically intelligent



interBims
BIMS • LAVA • SUBSTRATE

es, Tree Substrates,

f Substrates

t, ecologically valuable

Green Roof Substrates

A green roof is not only an eye-catcher, but also offers many other benefits. They increase the service life of a roof's waterproofing, improve the thermal insulation of a building in winter and acts as a heat shield in summer.



THE BENEFITS

- **Extensive** green roofs are easy to create and require little maintenance but offer few opportunities for use. These types of roofs are only accessed for care and maintenance.
- **Intensive** greening is equivalent to a garden and means increased effort in terms of construction/creation and care/use.
- Mixed forms usually involve higher extensive greening with more plant species, but without larger plants. These green areas are also generally only accessed for care and maintenance purposes.

Lawn Substrates

Lawns are used for a wide variety of purposes and often have to withstand the most adverse of conditions. Lawn substrates help to create the best conditions for long-lasting green lawns for every purpose. Especially in the private homes, the lawn is often the main spot where people spend their time in the garden – where children play and parties are held – making the lawn the centerpiece of the garden. This is why many owners put a lot of effort into maintaining their lawns.



THE BENEFITS

- Natural volcanic base such as pumice and lava
- Good water storage capacity
- Structurally stable
- Load-bearing
- Little settlement
- Improved nutrient supply
- Optimized root development
- More sterile than soil
- Can be applied in any weather
- Optimum quality

Tree Substrates

Filling a tree pit with the right substrate is the key basis for the positive development of the plant. Especially in an urban environment, planting with the right tree substrate is essential to ensure a tree's healthy growth.

Our interground tree substrate mixtures meet the requirements of plant pit construction methods 1 and 2 of the German Landscape Research, Development and Construction Society FLL and ensure optimal conditions.



THE BENEFITS

- Tree substrate 0-16, substrate according to FLL 1
Filling of tree pits for new plantings and site renovations
- Tree substrate 0-32, substrate according to FLL 1
Filling of tree pits for new plantings and site renovations
- Tree substrate 0-32 SW, substrate according to FLL 2
Filling under street/traffic areas

Sifted and Washed Pumice

Natural pumice, also known as pumice gravel or pumice stone, is a very light volcanic rock that is very porous. Pumice is formed when lava is exposed to gas-rich substances such as water vapor and carbon dioxide during a volcanic eruption. Pumice gravel is therefore chemically identical to lava and, depending on the volcanic eruption, has a light to dark color. iNTERBiMS has access to the most extensive pumice deposits with the best quality spectrum in the Eifel region. All pumice qualities are available in all common delivery forms, from natural pumice/raw pumice from the pit to sifted pumice and washed pumice. At iNTERBiMS you can buy different pumice stone or grain sizes, both in FIBCs and in a loose form.

FIELD OF APPLICATION

- Aggregate
- Improvement of soils
- Green roofs
- Production of pumice building materials / pumice blocks / lightweight concrete blocks
- Water treatment filter material
- Jeans production
- Bulk insulating material
- Substrates, construction chemicals, plasters, mortar, binding agents, carrier material
- Winter grit
- Substrate production
- Abrasives
- Road construction (NL)
- Insulation material



Lava

Our lava comes from the Eifel region north of Koblenz by the Rhine River. Lava is a volcanic product that is mined and crushed in open-cast mines. We sift or refine this lava into different grain sizes and offer it as lava, lava stone, lava chippings, lava substrate, lava granules or lava mulch.

Besides adding it to substrates, lava is mainly used in road construction, but also as drainage for green roof substrates, fillers for construction site fillings, gritting material, mulch layers, soil conditioners, etc. We offer lava mulch in the colors anthracite and red-brown especially for beds or road construction.

We also offer pure lava granules, e. g. as a natural gritting material.

FIELD OF APPLICATION

- Aggregate
- Improvement of soils
- Green roofs
- Natural grit
- Permanent mulch layer
- Drainage material
- Garden decoration / ornamental granules







Horticulture, Landscaping with Regional Bu





g and Masonry Products uilding Materials



Wall Building Materials / Building Construction

GEBR. ZIEGLOWSKI has been producing state-of-the-art wall-building materials made of pumice / lightweight concrete blocks for seven decades. Our **KLB lightweight** concrete block range includes a very large variety of blocks comprising thermal insulation blocks, sound insulation blocks, large-format blocks and many specialty items, all featuring unique construction, physical, sustainable and ecological properties.

APPLICATION

- Single-family house construction
- Apartment construction
- Commercial/industrial construction
- Hall construction



Horticulture and Landscaping / Concrete Products

GZ Shuttering Blocks – The versatile all-rounder, ideal for horticulture and landscaping.

Garden walls, planters, coping stones, pool copings, heavy-weight blocks, palisades, paving blocks and much more.

The load-bearing wall in precision block quality in sizes of 11.5 cm, 17.5 cm, 24 cm, 30 cm and 36.5 cm and with heights of 20 cm and 25 cm. Plan your project with our configurator www.mauerplaner.de.

APPLICATION

- Garden walls
- Swimming pool construction
- Screen walls
- Noise barriers
- Raised beds
- Enclosure walls
- Retaining walls



Concrete / Heavyweight Blocks

GZ-BoxBlock – Stable storage systems with heavyweight blocks. The **GZ BoxBlock system** is ideal wherever different bulk materials need to be stored neatly and separately. These blocks can be used to very quickly create material boxes that can be rearranged flexibly at any time.

Large quantities can be provided at short notice thanks to the industrial, high-performance production at GEBR. ZIEGLOWSKI. With our own configurator at www.mauerplaner.de you can plan and visualize your bulk material boxes yourself.

BENEFITS

- Very short delivery times for large quantities
- Flexible use
- Simple processing
- No mortar required
- Cost-effective and stable in value
- Sturdy, stable and resistant
- Sample static calculations available
- BoxBlock light with additional storage option



Raw Materials / Bulk Materials

GEBR. ZIEGLOWSKI is a specialist in bulk materials for building construction, civil engineering, horticulture and road construction. The company operates large raw material warehouses in the Koblenz area carrying volumes of up to 50,000 tons of gravel, sand, high-grade moraine chippings and Eifel lava.

GEBR. ZIEGLOWSKI supplies volcanic raw materials such as pumice, trass and lava mostly from its own deposits.

Natural pumice, sifted pumice, washed pumice, lava and trass are used in various qualities and grain size distributions.

APPLICATION

- In the production of lightweight concrete building materials
- In cement production
- In horticulture and landscaping
- In road construction
- As a binder
- In the production of substrates
- As winter grit
- As filter material



Service and Logistics



Service

With over 20 years of experience as a manufacturer of mineral substrates, KLANZ has extensive knowledge of which substrate is the right one for the greening task at hand. Take advantage of KLANZ's consulting expertise right when you begin planning your greening project – we will be happy to advise you.

In addition to the twenty different formulations for different fields of application and plant ranges, we are also able to develop special mixtures for specific requirements thanks to our extensive stock of raw materials.

Logistics

Our raw materials pumice, zeolite and lava are processed into KLANZ mineral substrates in the immediate vicinity of the extraction site in the so-called Koblenz Neuwied Basin. Thanks to the proximity to the A61 highway and the Rhine, the optimal logistics transport routes can be used, and the products can be shipped via the waterways under the most eco-friendly conditions.

Whether you need your mineral substrate loose, in FIBCs or in bags, our team will ensure that it reaches its destination quickly, safely and on time.

Whether by tipper truck, general cargo or curtainside transport, sea container or on a silo train with the option of delivering the material to the installation site by hose: With our own company group trucks and reliable transport partners, we will ensure that the goods reach their destination on time.



Packaging

In addition to loose goods, our packaging technology enables us to pack and palletize mineral substrates in container sizes from 1 to 40 liters. Please contact us if you require individual packaging methods or sizes.









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