



KMK GRANIT

akciová spoločnosť



PRODUCT CATALOGUE

At KMK GRANIT, we believe that even recycled materials can be the beginning of a new story - a story of responsibility, innovation, and respect for nature. Our ceramic recycling technology transforms waste into raw materials that help reduce environmental impact and protect our planet.

Recycled ceramic materials help reduce the extraction of new raw materials and energy consumption of mixtures while maintaining the required functional characteristics.



TABLE OF CONTENTS

Table of Contents	03
About Us	04
Our Goals	05
Product Overview	07
Our Product	08
Client Review	10
Contact	11



ABOUT US

KMK GRANIT, a.s. is a mining and processing company based in Krásno. Since 1992, we have been specializing in the extraction and processing of feldspar raw materials from the Krásno quarry, used for the production of ceramic, glass, and porcelain industries.



We mine and process albiteaplite granite containing sodium-potassium to potassium-sodium feldspars.

We have our own mining area and modern technology for grinding, sorting, and milling materials. We place key emphasis on the stability of input raw materials, the consistency of production processes, and full traceability of individual batches.

OUR GOALS



LEADER IN SUSTAINABLE MINING

Our mission is to mine and process raw materials with the utmost respect for the environment and people. We invest in modern technologies, reduce our environmental footprint, restore the landscape after mining, and create job opportunities for the region in which we operate.



TECHNOLOGICAL PIONEER

We combine mining tradition with innovation through intelligent control systems, automation, and predictive maintenance, enhancing safety, energy efficiency, and competitiveness. Our accredited laboratory (ČSN EN ISO/IEC 17025) ensures continuous monitoring of the chemical and granulometric parameters and supports customer-specific mixture optimization.





INNOVATOR IN THE
FIELD OF CIRCULAR
ECONOMY AND
RECYCLING OF
CERAMIC MATERIALS

Our long-term goal is to transform ceramic by-products into valuable raw materials for further industrial use. Thanks to our long-term experience and know-how in the field of sorting and processing ceramic waste, we support the circular economy, reduce the need for primary raw material extraction, and contribute to environmental protection.

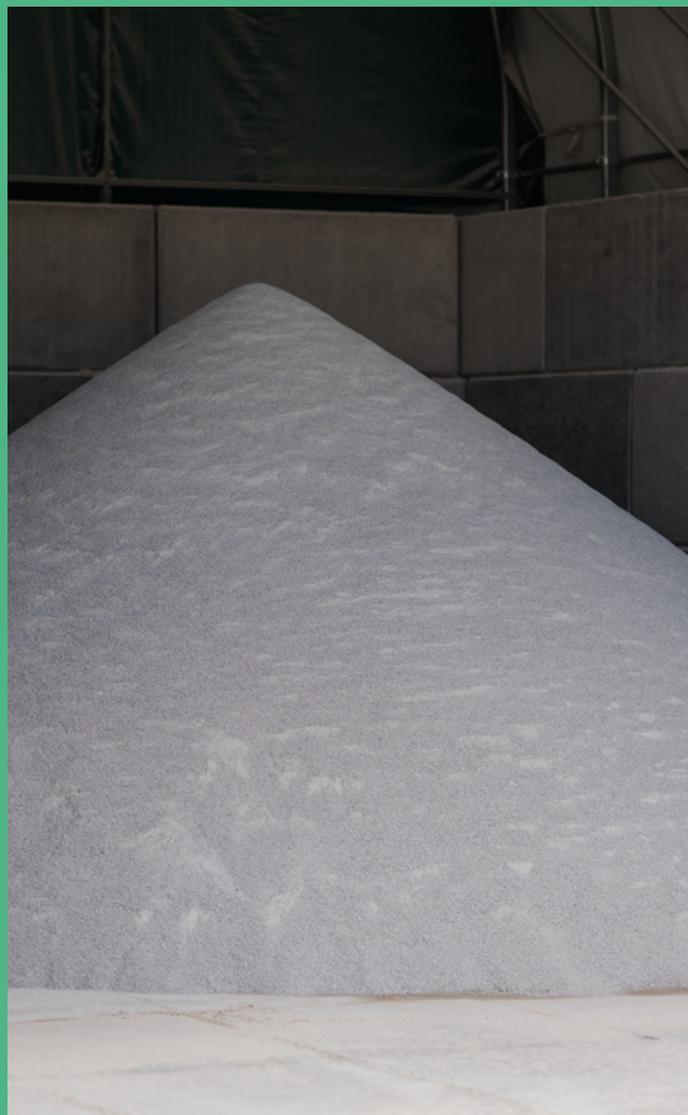


PRODUCT OVERVIEW



The reprocessing of ceramic products represents a modern approach that combines technical progress with the principles of sustainable development.

Although ceramics are a very durable material, their long lifetime and inability to biodegrade mean that waste from ceramic products remains in the environment for hundreds or even thousands of years.



Recycling and reuse are therefore a key step towards reducing the environmental impact. Recycled ceramic shards can be used in the production of ceramic materials to replace raw materials that would otherwise have to be mined, processed, and fired at high temperatures to produce fireclay aggregates. The use of recycled materials with a high Al_2O_3 content (above 45 %) saves on the energy-intensive and expensive production of corundum.

We are equipped not only with crushing technology, but also with our own mill, thanks to which we are able to supply material in fractions from 45 μm to 5 mm according to customer requirements, either in bulk, in Big Bags or in 25 kg paper bags.



Applicability:

- 🌈 modification of rheology and sintering of ceramic bodies
- 🌈 stabilization of body properties during firing
- 🌈 possibility of exchange expensive fired refractory raw materials or corundum
- 🌈 replacing burned raw materials saves energy and CO₂



IZ 45

Fired aluminosilicate grog (or chamotte) having a stable crystalline composition with a firing temperature of 1400 °C, containing at least 45 % Al_2O_3 , refractoriness min. 1700 °C

IZ 35

Fired aluminosilicate grog (or chamotte) having a stable crystalline composition with a firing temperature of 1340 °C, containing at least 35 % Al_2O_3 , refractoriness min. 1620 °C

IZ 20

Fired aluminosilicate grog (or chamotte) having a stable crystalline composition with a firing temperature of 1340 °C, containing at least 21 % Al_2O_3 , refractoriness min. 1520 °C

PLA

Fired aluminosilicate grog (or chamotte) having a stable crystalline composition with a firing temperature of 1250 °C, containing at least 21 % Al_2O_3 , refractoriness min. 1490 °C

RFR 65

Fired aluminosilicate grog (or chamotte) having a stable crystalline composition with a firing temperature of 1500 °C, containing at least 65 % Al_2O_3 , refractoriness min. 1700 °C

CLIENT REVIEW



Behind every project are people and their trust. We greatly value cooperation with our clients and their feedback. Learn about the experiences of our clients who have placed their trust in us.

K M K GRANIT, a.s.
to the attention of JUDr. Zuzana Kolbasová, MBA, LL.M

Having integrated **IZ-45 (63 micron)**, **PLA (0-1mm)**, and **C795 (0-500 micron)** of KMK GRANIT a.s. into some of our products, we have found them to be transformative components across a diverse range of high-performance applications. Our testing phase spanned from the formulation of thin-film, anti-abrasion coatings for high-value-added metal protection to the development of massive, geopolymer-based refractory systems that eliminate the need for traditional firing. In these contexts, **IZ-45** and **PLA** proved to be exceptional alternatives to conventional industry standards typically reliant on high alumina or mullite content. Furthermore, the strategic inclusion of **C795**—a product featuring over 85% alumina—has consistently guaranteed superior abrasion resistance and chemical stability in several of our specialized developments.

What sets these products apart is the seamless synergy between technical excellence and environmental responsibility. By utilizing these materials as secondary raw materials, we will successfully optimize the **LCA (Life Cycle Assessment)** and **EPD (Environmental Product Declaration)** of our final catalog, offering a significant sustainability advantage in an increasingly regulated market. Furthermore, the ability to receive a customized granulometric curve has allowed us to achieve superior particle packing and material density, resulting in a truly “complete” and high-performing product. These materials represent the ideal intersection of circular economy principles and uncompromised industrial performance.

San Costa
IAN COSTA

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★★★★★
GeoMITS


CERAMICA DOLOMITE

Dear KMK GRANIT Team,

We are writing to express our sincere appreciation for the fruitful collaboration between our companies. For Ceramica Dolomite, the integration of IZ45 as a secondary raw material has been a fundamental step in our production processes. The use of this material has proven instrumental in optimizing our compositions, allowing us to maintain high quality standards while successfully innovating our core formulas.

We would particularly like to highlight the high level of scientific and managerial expertise demonstrated by your company in material processing. Your rigorous approach and commitment to eco-sustainability are invaluable to us, aligning perfectly with our vision of increasingly responsible and circular manufacturing.

We are confident that this development marks just one milestone in a shared journey toward excellence and sustainable innovation. We thank you for your professional support and look forward to continuing this productive synergy.

Paolo Balthazin
Managing Director
Paolo Balthazin

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