

#WearProtection

## The mills are running smoothly

Plochingen, September 2024

**Mills are designed to operate without interruption and to leave no residue in the ground material. Ceramic mill linings make it possible to achieve both goals, enabling maximum product purity and a long service life.**

- **Smooth maintenance through easily plannable lining changes**
- **Expertise in mill linings enables product purity**
- **Individual solutions for customer applications**

There are many different applications for ceramic wear protection solutions in mills: they are in demand in the processing of raw materials, in the cement, paint and pharmaceutical industries, as well as in the metallurgical, chemical and ceramic industries. This is because the raw materials, whether silica sand, cement, chemicals or pigments, are sometimes very abrasive. At the same time, a particularly high degree of purity is required for the material being ground when milling food or animal feed, pharmaceutical products, pigments or paints, but also raw materials for the glass and ceramics industry, for example.

CeramTec also relies on mill linings made from its own ALOTEC for its own production. "We line our own mills in order to meet the high-quality standards for our ceramics. After all, the mill lining also contributes to our ability to offer our customers an optimum product," explains Ulrike Wiech, Sales Manager Wear Protection Solutions. "We have more than 100 mills of various sizes in our plants, and they must be replaced regularly. The experience CeramTec that gains in this process benefits our customers from a wide range of industries worldwide," Wiech continues.

### Maximum purity in grinding

When grinding and crushing in industrial plants, it is particularly important that the product to be ground is not contaminated under any circumstances by abrasive materials from the mill or grinding beads. "Ceramic linings are characterized by very low abrasion – this largely prevents contamination of the material being ground," explains Wiech. For mill linings, CeramTec relies primarily on ALOTEC 92, an alumina ceramic ( $\text{Al}_2\text{O}_3$ ) that contains no foreign substances and also impresses with its high density and maximum hardness. "ALOTEC mill linings for drum mills outperform conventional lining materials in terms

Press contact  
CeramTec Industrial

Peter Hartung  
CeramTec GmbH  
CeramTec-Platz 1-9  
D-73207 Plochingen  
pr-industrial@ceramtec.de  
P +49 (7153) 61110803

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of their wear resistance in both wet and dry grinding. And we are continuously developing the material further, “ emphasizes Wiech. Depending on the material to be ground, different mill lining profiles are particularly suitable. “Our many years of experience in ceramic wear protection enable us to find individual solutions for our customers’ applications,” emphasizes Wiech. Special requirements such as corrugated blocks, lifting bars and borders can also be taken into account. Steatite mill linings and grinding media round off CeramTec's wear protection portfolio.

Thorough planning and close coordination between all parties involved is necessary to ensure a smooth lining changeover and to keep downtimes as short as possible.

This is ensured by CeramTec's experienced installation partners, who work with the highest precision and quality.

## Picture Material

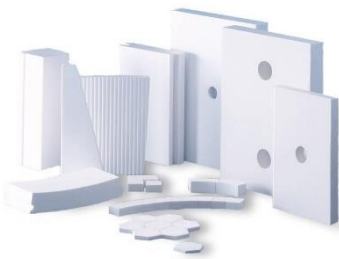
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CeramTec\_mince\_01.jpg

When grinding and crushing in industrial plants, it is important to ensure that the product to be ground does not come into contact with abrasive materials from the mill or the grinding beads. Ceramic wear protection ensures this.

Source: CeramTec



CeramTec\_wearprotection.jpg

In addition to standard tiles and bricks, CeramTec supplies customer- and project-specific components in a range of sizes, shapes and degrees of complexity, including in combination with steel and polymers, and uses these to create complete wear protection solutions.

Source: CeramTec

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**The following information will help you publish this press release on your online and social media channels.**

**Meta Description**

Mills are designed to operate without interruption and to leave no residue in the ground material. Ceramic mill linings make both of these goals a reality, ensuring maximum product purity and a long service life. One proven option is ALOTEC from CeramTec.

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**Press contact:**

Peter Hartung

Muriel Weber

CeramTec GmbH  
Tel. +49 (7153) 61110803  
pr-industrial@ceramtec.de  
www.ceramtec-group.com

Communication Consultants GmbH  
P +49 (711) 97893 33  
ceramtec@cc-stuttgart.de  
www.cc-stuttgart.de

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### About CeramTec

CeramTec has been a manufacturer and supplier of technical ceramics with a focus on advanced ceramic (HPC) solutions since 1903 and specialises in the development, manufacture and distribution of parts, components and products made from ceramic materials. With more than a century of development and production experience in the HPC industry, CeramTec is a world leader in the manufacture of advanced ceramics and develops these materials for use in a wide range of applications. CeramTec's advanced ceramics are used in a number of areas, including medical applications such as hip prostheses, other orthopaedic implants, dental implants and medical devices, as well as in the mobility and electronics industries, and also in other industrial applications. With production sites and subsidiaries in Europe, North and South America and Asia, CeramTec has a global presence as a manufacturer and supplier. CeramTec's headquarters are located in Plochingen near Stuttgart. In 2023, CeramTec generated revenue of more than 817 million euros. CeramTec employs more than 3,800 people worldwide, including around 2,000 in Germany.

More info: [www.ceramtec-group.com](http://www.ceramtec-group.com)

