

KALSICA® Silicon Carbide Linings

**For Abrasion Protection
at Extremely High Temperatures**



KALSICA® silicon carbide linings for plant components for extreme wear, thermal shock and high temperature resistance. High precision KALSICA shapes can be manufactured with wall thicknesses from 2mm for shaped components such as pumps, fans or hydraulic cyclones. Typical applications for KALSICA include coal dust distributors, cyclone linings and coke ramps.

- Outstanding resistance against wear and thermal shock. KALSICA is part of the silicon carbide ceramics group and is available in different qualities: Silicon infiltrated (KALSICA-S), Silicon nitride bonded (KALSICA-A, -N, -P) and Metal bonded (KALSICA-M)
- Operational temperature max. 1550°C (depending on conditions for installation)
- High resistance to temperature fluctuations
- Very good heat conductivity
- Corrosion resistance

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**For plant components for extreme wear,
high temperature and/or thermal shock**

Installation: individual shapes and components laid in mortar on synthetic resin or mineral base or in temperature and acid resistant based mastics. Mechanical fixing is also possible.

Application temperature: up to 1,500°C / 2,732 °F depending on application and geometry.

Advantages: highly abrasion resistant, resistant to thermal shocks and manufactured to close tolerances.



Hydrocyclone for magnesite processing operation comprising complex shaped components made of KALSICA



Burner cone for a power station made of KALSICA



1,200 mm diameter KALSICA cyclones guarantee reliable operation: the system separates silicon sand at temperatures up to 300 °C / 572 °F