

# KALCRET CTX

Hard Compound

## Material data sheet

### Material description in general

KALCRET CTX is a trowelled, cement-bonded hard material compound for seamless protection of plant components. The material on the base of corundum has excellent abrasion resistance and very high temperature resistance. KALCRET CTX is easy and quickly to use and ensures fast availability of plant components. KALCRET CTX is offered in bags-supply or as individual shape.

### Characteristics of the installed material

Feature	Unit	Data
Hard material content	Wt.-%	70
Density	g/cm <sup>3</sup>	3.0
	lb/ft <sup>3</sup>	194
Thermal coefficient of expansion	K <sup>-1</sup> (20 - 400 °C)	3.3 x 10 <sup>-6</sup>
	°F <sup>-1</sup> (68 - 660 °F)	1.8 x 10 <sup>-6</sup>
Thermal conductivity	W/mK (20 - 400°C)	3.3
	BTU-in/hr-ft <sup>2</sup> -68°F	22.9
Max. application temperature	°C	1200
	°F	2192
Max. thermal shock resistance	K/h	300
	°F/h	540
Wear resistance acc. ASTM C704-15	cm <sup>3</sup> at 90° angle	≤ 4.5
Wear resistance acc. DIN 52108	cm <sup>3</sup> /50 cm <sup>2</sup>	0.5 - 1
Wear erosive resistance	min/cm <sup>3</sup>	200
Cast shrinkage	Vol. %	0.2
Compressive strength	MPa	200
Flexural strength	MPa	15

Approximate figures are given for all technical data. They are based on assessment of tests on specific samples and cannot be considered as a guarantee for which Kalenborn would have to assume legal responsibility. Subject to technical changes and errors.

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### Installation

- KALCRET CTX trowelled compound allows protection of horizontal, vertical, inclined and curved surfaces.
- Overhead working is easily done.
- KALCRET CTX can either be applied at the Kalenborn plant or at the site.
- For safe installation a comprehensive range of tools and equipment is available for installation as well as a detailed instruction on [https://www.kalenborn.com/fileadmin/Redakteur/PDF/EN/EN\\_Usermanual\\_KALCRET.pdf](https://www.kalenborn.com/fileadmin/Redakteur/PDF/EN/EN_Usermanual_KALCRET.pdf)

### Advantages

- Highly resistant to abrasion and compressive stress
- High compressive strength and micro impact resistance
- Resistant to high temperatures
- Continuous lining
- Fast lining
- By short start-up and reaction times a quick application is possible

### Applications from energy and the environment, cement and building materials, iron and steel, mining and other industries

bunkers

channels

chutes

cyclones

deviation hoods

dust collecting ducts

gas purifying systems

hoppers

hydraulic conveying systems

pipe bends

pipes

pneumatic conveying systems

separators

silos

vessels

Due to the manufacturing process, it is not possible to exclude small variations in the properties of the product. They also include typical characteristics of hydraulically setting products like temperature- and application-related fluctuations of the working, hardening, and product properties. With prefabricated elements these variations may include, but are not limited to tolerances of dimension, surface finish, chipping, voids, porosity, and hairline fractures.