

PRODUCT SHEET

CERATOSIL® TK d**Description:**

CERATOSIL® TK d is a activated calcium bentonite made from selected raw clays. It is especially suited for technologies in which the outstanding water retaining, swelling, lubricating, sealing, sorption or binding capability of an active bentonite is necessary. Further more it is improveing green strength and extrusion behaviour of ceramic bodies. Production processes especially of structural and technical ceramics are optimized.

CERATOSIL® TK d ist ein aktivierter Calciumbentonit aus ausgewählten Roh-tonen. Besonders geeignet für Technologien, bei denen die hervorragende Wasserhalte-, Quell-, Schmier-, Dicht-, Sorptions- oder Binfefähigkeit eines Aktivbentonits erforderlich ist. Weiter verbessert er die Rohbruchfestigkeit und das Extrusionsverhalten keramischer Massen. Die Herstellprozesse von Bau- und technischen Keramiken werden optimiert.

TYPICAL PROPERTIES

Color	beige
Form	powder
Moisture content	6 - 14%
Bulk density	700-800 kg/m ³
methylen blue adsorption	320-380 mg/g
Swelling volume (H ₂ O dest.)	approx. 22 ml/2 g
Enslin-Neff (H ₂ O dest., 24 h)	approx. 500%
pH value	9-11
Sieve residue (>63 µm dry)	10-30%

Publisher

Clariant Produkte (Deutschland) GmbH
BU Adsorbents & Additives
Specialties
Ostenriederstraße 15
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Issue

January 2023

MINERALOGICAL COMPOSITION

Main mineral	Montmorillonite
Accompanying minerals:	
Quartz	1 - 2%
Feldspar	1 - 3%
Calcite	1 - 3%

CHEMICAL COMPOSITION

SiO ₂	55%
Al ₂ O ₃	20%
TiO ₂	0.4%
Fe ₂ O ₃	4%
MgO	4%
CaO	4%
Na ₂ O	3%
K ₂ O	0.7%
MnO ₂	0.1%
Loss of ignition (1000°C)	9%
Fluoride	0.2%

The expressed values of the accompanying components can vary by $\pm 20\%$ due to natural dispersion of the raw material.

Packaging: bulk, big bags, bags

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