

PRODUCT SHEET

CERATOSIL® R**Description:**

CERATOSIL® R is a natural calcium bentonite made from selected raw clays for improvement of plasticity and green strength of ceramic bodies. Production processes are optimized by its inorganic binder capacity and the well included properties as fluxing agent. Further more, it can work as a binder for various agglomeration processes.

CERATOSIL® R ist ein natürlicher Calciumbentonit aus ausgewählten Rohtonen. Er verbessert Plastizität und Rohbruchfestigkeit keramischer Massen. Die anorganische Binderkapazität und gute Fließmitteleigenschaften optimieren den keramischen Herstellungsprozeß. Weiter kann er als Binder für diverse Agglomerationsprozesse eingesetzt werden.

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Specialties
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85368 Moosburg
Germany

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Contact

Alexander Mayerhofer
Alexander.mayerhofer@clariant.com
Phone +49 8761 82 509

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TYPICAL PROPERTIES

Color	ivory
Form	powder
Moisture content	6 - 14%
Bulk density	750± 80 kg/m ³
methylen blue adsorption	200-300 mg/g
Swelling volume (H ₂ O dest.)	5-8 ml/2 g
Enslin-Neff (H ₂ O dest., 24 h)	250-350%
pH value	8-9
Sieve residue (>63 µm dry)	10-40%

MINERALOGICAL COMPOSITION

Main mineral	Montmorillonite
Accompanying minerals:	
Quartz	3 - 7%
Mica	2 - 7%
Feldspar	1 - 3%
Calcite	0 - 1%
Dolomite	1 - 5%

CHEMICAL COMPOSITION

SiO ₂	54%
Al ₂ O ₃	19%
TiO ₂	0.3%
Fe ₂ O ₃	6%
MgO	5%
CaO	4%
Na ₂ O	0.1%
K ₂ O	1.5%
MnO ₂	0.06%
Loss of ignition (1000°C)	10%
Fluoride	0.1%

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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