

## PRODUCT SHEET

**CERATOSIL® FG****Description:**

**CERATOSIL® FG** is an activated calcium, with balanced rheological properties and with high grinding fineness. It is especially suited for technologies in which the outstanding water absorption, swelling, lubricating, sealing, sorption or binding capacity of a very well capable of being homogenised active bentonite is necessary. It is also easily dispersable in ceramic masses and therefore the plasticizing, stabilizing and thixotropic effect is maximized. Extrusion behavior and production processes are optimized.

**CERATOSIL® FG** ist ein aktivierter Calciumbentonit, mit ausgewogenen rheologischen Eigenschaften und mit höchster Mahlfeinheit. Er ist besonders geeignet für Technologien, bei denen die hervorragende Wasser-aufnahme-, Quell-, Schmier-, Dicht-, Sorptions- oder Bindefähigkeit eines sehr gut homogenisierbaren Aktivbentonits erforderlich ist. Außerdem ist er in allen keramischen Massen hervorragend homogenisierbar und kann seine plastifizierende, stabilisierende und thixotrope Wirkung voll entfalten. Extrusionsverhalten und Herstellprozesse werden optimiert.

**TYPICAL PROPERTIES**

Color	ivory
Form	powder
Moisture content	6 - 14%
Bulk density	600± 80 kg/m <sup>3</sup>
Brookfield viscosity (50 g/l, 1h)	80-200 mPas
Swelling volume (H2O dest.)	25-35 ml/2 g
Enslin-Neff (H2O dest., 24 h)	> 500%
pH value	10-11
Sieve residue (>63 µm dry)	< 4%
Sieve residue (>45 µm wet)	< 4%

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## MINERALOGICAL COMPOSITION

Main mineral	Montmorillonite
<b>Accompanying minerals:</b>	
Quartz	1 - 5%
Mica	1 - 5%
Feldspar	1 - 3%
Calcite	1 - 4%
Dolomite	1 - 4%

## CHEMICAL COMPOSITION

SiO <sub>2</sub>	51%
Al <sub>2</sub> O <sub>3</sub>	18%
TiO <sub>2</sub>	0.3%
Fe <sub>2</sub> O <sub>3</sub>	5%
MgO	4%
CaO	7%
Na <sub>2</sub> O	3%
K <sub>2</sub> O	1.5%
MnO <sub>2</sub>	0.06%
Loss of ignition (1000°C)	11%
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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