

## PRODUCT SHEET

**CERATOSIL® VF****Description:**

**CERATOSIL® VF** is a natural sodium bentonite of high grinding fineness with outstanding adsorption capacity and swelling power. Without “activation salt” and being easily homogenised in aqueous systems it builds up a shear rate that prevents heavy pigments/extenders from settling in the production of glazes and enamels. As an effective structuring agent it serves for shaping and improves extrusion behaviour. It is very well suited as a filler and as a carrier substance for reactive and inert materials.

**CERATOSIL® VF** ist ein natürlicher Natriumbentonit mit ausgezeichnetem Adsorptions- und Quellvermögen, bei hoher Mahlfineinheit. Ohne „Aktivierungssalz“ und sehr gut homogenisierbar, wird er als rheologisches, thixotropes Additiv in Glasuren und Engoben eingesetzt. Als wirksames Strukturhilfsmittel dient er der Formgebung und verbessert das Extrusionsverhalten. Er eignet sich sehr gut als Füllstoff und als Träger für reaktive und inerte Materialien.

**TYPICAL PROPERTIES**

Color	silk grey
Form	powder
Moisture content	6 - 14%
Bulk density	630-730 kg/m <sup>3</sup>
methylen blue adsorption	250-350 mg/g
Swelling volume (H <sub>2</sub> O dest.)	approx. 26 ml/2 g
Enslin-Neff (H <sub>2</sub> O dest., 24 h)	approx. 700%
pH value	9-11
Sieve residue (>63 µm dry)	3-8%

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Specialties  
Ostenriederstraße 15  
85368 Moosburg  
Germany

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**Contact**

Alexander Mayerhofer  
[Alexander.mayerhofer@clariant.com](mailto:Alexander.mayerhofer@clariant.com)  
Phone +49 8761 82 509

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## MINERALOGICAL COMPOSITION

Main mineral	Montmorillonite
<b>Accompanying minerals:</b>	
Quartz	3 - 6%
Mica	0 - 1%
Feldspar	1 - 4%
Calcite	0 - 1%
Dolomite	0 - 1%

## CHEMICAL COMPOSITION

SiO <sub>2</sub>	62%
Al <sub>2</sub> O <sub>3</sub>	20%
TiO <sub>2</sub>	0.2%
Fe <sub>2</sub> O <sub>3</sub>	4%
MgO	2%
CaO	2%
Na <sub>2</sub> O	2%
K <sub>2</sub> O	0.6%
MnO <sub>2</sub>	0.05%
Loss of ignition (1000°C)	7%
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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