

## PRODUCT SHEET

**CERATOSIL® VP****Description:**

**CERATOSIL® VP** is a natural sodium bentonite with outstanding adsorption capacity and swelling power. It is very well suited as a filler and as a carrier substance for reactive and inert materials. As an effective structuring agent it serves for shaping, improves extrusion behaviour and prevents from settling. It is also used in glazes and engobes, as well as in monolithic refractory masses and washes.

**CERATOSIL® VP** ist ein natürlicher Natriumbentonit mit ausgezeichnetem Adsorptions- und Quellvermögen. Er eignet sich sehr gut als Füllstoff und als Träger für reaktive und inerte Materialien. Als wirksames Strukturhilfsmittel dient er der Formgebung und verbessert das Extrusionsverhalten. Als rheologisches, thixotropes Additiv wird es sowohl in Glasuren und Engoben als auch in monolithischen feuerfesten Massen und Schichten eingesetzt.

**TYPICAL PROPERTIES**

Color	silk grey
Form	powder
Moisture content	6 - 14%
Bulk density	750-850 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. 800%
pH value	9-11
Sieve residue (>63 µm dry)	10-25%

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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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