



Product Data Sheet

CERATOSIL® CVI

Chemically modified layer silicate on the basis of montmorillonite, is certified according regulations of DIN EN ISO 9001.

Physical dates (average values)		CERATOSIL® CVI
Form	-	powder
Whiteness (Method of analysis OP 0007 *)	%	Min. 70
Moisture (Method of analysis OP 0009 *)	%	Max. 13
PH- value (Method of analysis OG 0023 *)	-	9 -11
Viscosity (5% slurry) (Method of analysis OP 0005 *)	mPas	Min. 100
Wet sieve residues > 45µm	%	Max. 0.1

*) Methods of SÜD-CHEMIE AG, following DIN standards are available upon request

Typical Properties

Colour :	white
Bulk density:	450 ± 50 kg/m ³
Methyleneblue adsorption:	approx. 400 mg/g
Swelling volume:	min. 30 ml/2g
Enslin-Neff (1 hr):	min. 400 %
Dry Sieve Residue on 45 µm:	max. 0.25 %

Product description

CERATOSIL® CVI is a white, alkaline activated calcium bentonite with very low iron content for industrial use obtained from carefully selected, unfired bentonite with excellent balanced rheological properties. It is particularly suitable for processes requiring the specific water-absorbing, swelling, lubricating and sealing properties offered by an excellently-homogenised, active bentonite. Due to its rheological and sorption qualities, it lends viscose properties to ceramic masses before firing, as well as plasticity and stability after firing.

Application

- As anti settling agent in glaze, enamel and engobe formulation (dosage 1 – 3%)
- To improve dry and breaking strength of body tile (dosage 0.2% - 1%)
- Fireproof masses and refractory washes (dosage 2- 4%)

Packaging

Big Bag 900kg, 750kg and small bags 25kg

Mineralogical Composition

Principal Mineral:	Montmorillonite (> 90%)
Accompanying minerals:	
	Cristobalite < 1 %
	Feldspar < 1 %
	Quartz < 1 %
	Dolomite < 2 %

Chemical Composition

SiO ₂	67.0 %
Al ₂ O ₃	17.2 %
TiO ₂	0.21 %
Fe ₂ O ₃	1.5 %
MgO	4.9 %
CaO	2.7 %
Na ₂ O	3.2 %
K ₂ O	0.35 %
MnO ₂	0.02 %
Ignition loss	8.4 %
Fluoride	0.25 %

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

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