

PRODUCT SHEET

CERATOSIL® WGA-F**Description:**

CERATOSIL® WGA-F is a white fine, light-burning activated calcium bentonite with low content of colouring metal salts (Fe_2O_3 , TiO_2 , MnO_2) for use in the rubber industry, as well as for processing colour-sensitive products in the ceramics and building materials industries. It exhibits its plasticising, stabilising and shaping effect and prevents from settling. In addition to that, extrusion and manufacturing processes are optimised by its viscosifying behaviour. It is especially suited for technologies in which the outstanding water retaining, swelling, lubricating, sealing, sorption or binding capability of an active bentonite is necessary.

CERATOSIL® WGA-F ist ein weißer, feiner, hellbrennender aktivierter Calciumbentonit mit niedrigem Metallgehalt (Fe_2O_3 , TiO_2 , MnO_2) für den Einsatz in der kautschukverarbeitenden Industrie, sowie die Keramik- und Baustoffindustrie, in der farbempfindliche Produkte verarbeitet werden. Er entfaltet seine plastifizierende, stabilisierende und rheologische Wirkung in fester und flüssiger Form. Extrusionsverhalten und Herstellprozess werden optimiert. Besonders geeignet für Technologien, bei denen die hervorragende Wasserhalte-, Quell-, Schmier-, Dicht-, Sorptions- oder Bindefähigkeit eines Aktivbentonits erforderlich ist.

TYPICAL PROPERTIES

Color	white
Form	powder
Moisture content	6-14%
Bulk density	450-550 kg/m ³
methylen blue adsorption	250-350 mg/g
Swelling volume (H ₂ O dest.)	approx. 22 ml/2 g
Enslin-Neff (H ₂ O dest., 24 h)	approx. 600%
pH value	9-11
Sieve residue (>63 µm dry)	0-10%
Whiteness (Elrepho, R 457nm)	approx. 82%

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MINERALOGICAL COMPOSITION

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

CHEMICAL COMPOSITION

SiO ₂	66%
Al ₂ O ₃	16%
TiO ₂	0.1%
Fe ₂ O ₃	1%
MgO	3%
CaO	2%
Na ₂ O	4%
K ₂ O	1%
MnO ₂	0.05%
Loss of ignition (1000°C)	6%
Fluoride	0.3%

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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