

## AGB/C P11

### Calcium bentonites for ceramic

#### Description

**AGB/C P11** is a new product based on extremely pure and white bentonites, selected to give the best performance when used as additive in ceramic applications

#### Montmorillonite

Bentonite, or montmorillonite, is a mineral of the smectite family characterised by a lamellar crystalline structure. Once the lamellas of montmorillonite, which are distributed in platelets and held together by Van der Waals forces, have been dispersed in water, they can create a specific surface of 800 m<sup>2</sup>/g. One lamella of montmorillonite has a high negative charge on the surface and a positive charge at the edges due to the isomorphous substitution of aluminium with magnesium ions and silicon with aluminium ions.

Physical-Chemical characteristics (typical)		
		AGB/C P11
Swelling	[ml/2g]	5-10
Blue metilene adsorbing	[mg/g]	330
Colour (Hunterlab)	L	93
Residue on 75 µm	[%]	5 – 10

Applicative characteristics		
		AGB/C P11
Water plasticity	%	124
Shrinkage	%	8
Water adsorption	%	11
White at 1220°C	L	84
	a	3,25
	b	20,62

Chemical analysis (typical) (XRF) [%]	
	AGB/C P11
Na <sub>2</sub> O	0,00
MgO	3,54
Al <sub>2</sub> O <sub>3</sub>	15,09
SiO <sub>2</sub>	69,67
P <sub>2</sub> O <sub>5</sub>	0,01
K <sub>2</sub> O	0,32
CaO	2,71
TiO <sub>2</sub>	0,12
MnO	0,05
Fe <sub>2</sub> O <sub>3</sub>	1,21
950 °C Loss	7,28

#### Packaging

**AGB/C P11** is available in 25 kg paper bags, big bags of 500-1.000 kg, in bulk (silo trucks or bulk-containers).

#### Storage

The product must be stored in dry place. Very high moisture or contact with water can damage the products. The product stored in bulk, when in contact with atmosphere, could increase its moisture.

#### Technical assistance

Our technical department and area sales managers are at your disposal for any question concerning the use of our products to improve effectiveness of ceramic process and value of customers' products.

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