

AgriBent P Sodium Bentonite selected for Agriculture

PRODUCT: White Bentonite

COMPOSITION: 100% Bentonite

PHYSICAL FORM: Powder or granular

PACKAGING: Supplied in 25 kg paper bags or 1000 kg big bags



General information and specific advantages

BENTONITE is a clayey material of the smectite family mainly consisting of montmorillonite. BENTONITE is a hydrophilic clay of volcanic origin, mainly composed of silicon and aluminum oxide (phyllosilicate) and natural micronutrients.

In agriculture it is used as a support agent (carrier) for other active ingredients or as an aggregating agent. Thanks to the expansion capacity due to the adsorption of water, bentonite-based products are used as cicatrizants and protectors of fruits and berries, thus effectively protecting the grapes from the settlement of Botrytis cinerea and other fungal and bacterial pathogens. Thanks to the ability to adsorb the water present on the vegetation, Bentonite is very effective in drastically reducing the risk of fungal diseases. Moreover, given its light color, it is effective in reflecting the sun's rays avoiding leaf burns. Limits the attack of the olive drupes by Bactrocera oleae.

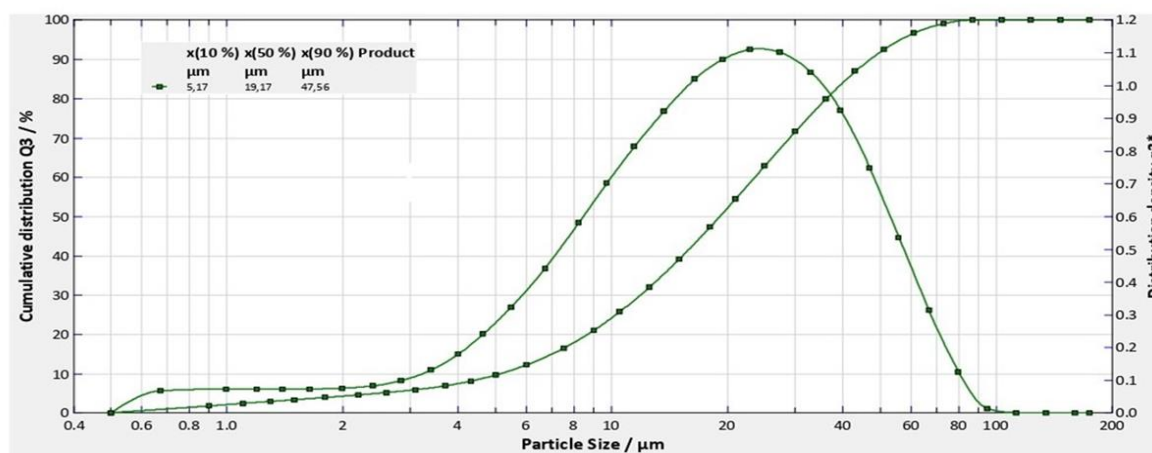
Table 1: AgriBent P: physical-chemical properties.

Physical-chemical characteristics (typical values):		
Moisture	[%]	8-12
pH suspension 1%		9.74
Swelling	[ml/2g]	30
Residue on 75 micron	[%]	max 5
Color (Hunterlab)	L	89,2
	a	-0,3
	b	6,7
Chemical analysis of Bentonite (typical)		[%]
Na ₂ O		3,3
MgO		4,2
Al ₂ O ₃		19,3
SiO ₂		56,8
P ₂ O ₅		0,2
K ₂ O		0,7
CaO		2,8
TiO ₂		0,8
MnO		0,1
Fe ₂ O ₃		4,8
Calcination Loss		6,9

Applications and dosage

1. **Powder: AgriBent P** is used as it is or mixed with Sulfur or, if necessary, with other substances that are applied in the form of a powder. The suggested dose is 10-20 kg / hectare. AgriBent P in powder is also used for a physical drying and dehydrating action on grape berries. The bunch is protected by bentonite dust which reduces the damage that can be caused by a high humidity content or by damage caused by atmospheric agents. The recommended doses are 20-30 kg / hectare of dry powder.
2. **Suspension: AgriBent P** is first mixed with water in the appropriate tanks, the suspension must be stirred for complete mixing and kept stirred during application. The recommended dose for an optimal adhesive action is about 150-200 g / hl, while for a Corroborating and enhancing action of natural defenses the suggested dose is 400-900 g / hl. Its high fineness allows it to be used with the most common nozzles. (Always check the compatibility between the diameter of the nozzles used and the grain size of the product).
3. **Granular: AgriBent P** can be used as a granulation aid for granular fertilizers. Bentonite gives resistance to the granule avoiding its disintegration. In application, on the other hand, bentonite adsorbs the water and therefore helps the continuous and gradual release of the fertilizer, avoiding its washout.

Typical particle size distribution of AgriBent P



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