

Performance Additives Water treatment

LAVIOPUR® AP

Activated bentonite for water clarification

Description and function

LAVIOPUR® AP is based on a natural sodium bentonite chosen for primary and industrial waste water clarification and for sludge treatment. It is a mineral powder that forms stable water suspension.

LAVIOPUR® AP slurry must be added to the water or sludge in association with other coagulants or flocculants. In this condition **LAVIOPUR® AP** acts as a coagulant and enhances the flocculation process; moreover **LAVIOPUR® AP** can adsorb and remove surfactants, COD, heavy metals, oil and greases.

In some cases **LAVIOPUR® AP** can be added as a powder in case where adequate mixing energy is applied to the waste water.

LAVIOPUR® AP can take part of different waste water and sludge treatment assemblies, such as those based on :

- Sedimentation
- Flotation
- Filtration
- Press-filtration
- Centrifugation

Method of utilization

LAVIOPUR® AP should be dispersed with tap water, concentration 3-5% by weight. Clarified water could be used but only if of excellent quality and, in any case, not before a long-term evaluation of slurry stability.

Usually **LAVIOPUR® AP** is to be added before flocculating chemicals. Contact time and optimal combination with other chemicals are to be evaluated in advance with an on-site survey comprising adequate lab testing.

Dosage

The dosage range of **LAVIOPUR® AP** can be very wide and has to be cleared up on site through a lab test pre-evaluation and a plant test confirmation test.

As a rule of thumb, **LAVIOPUR® AP** dosage range can 10 – 40 g/m³ when used as a coagulant while the dosage can be up to 500 – 1000 g/m³ when quantitative adsorption is required. Dosages of 200 – 500 g/m³ in sludge treatment are usual for **LAVIOPUR® AP**.

Physical-chemical characteristics		
Appearance		light brown powder
Moisture	[%]	11-13
Bulk Density	[g/m]	0,9-1,0
pH in H ₂ O		8,5-9,5

Packaging

LAVIOPUR® AP is available in 25 kg bags, 1000 kg big bags and bulk.

Storing

LAVIOPUR® AP is to be stored in a dry place with no particular prescriptions.

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