



Reotan LA-T

Chemical description

Ammonium salt of synthetic polyelectrolyte

Main use

Fluidising agent for ceramic slips.

Typical values

Appearance at 20°C: Liquid

Odour: Ammoniacal

Specific gravity at 20°C: 1.130 -1.180 kg/l

Refraction Index: 1.390 - 1.450

Gardner colour: max. 5

pH: 6.5 - 8.5

Properties

REOTAN LA/T is a dispersant based on ammonium polyacrylate; it is used in the preparation of ceramic slips both for casting and spray drying especially when an alkali free additive is required.

As the REOTAN LA/T is ammonium polyacrylate alkali free based, the residue after burning is very low.

In casting, the ammonium polyacrylate is preferred to the sodium salt because it can improve the casting rate. Furthermore several cases of reduction of the defect usually called "black spot" (dark waving-beading on the cast piece, more often in the upper part of casting chamber) are reported, as this defect, whose origin is not completely clear, seems to occur more often in the presence of sodium.

Compared to silicates and soda ash, REOTAN LA/T enables a higher control on the thixotropy, which can be in this way better balanced in relation with density and viscosity, in order to obtain the best results in terms of thickness formation rate, easy elimination of the slip in excess and mechanical features of the raw pieces.

REOTAN LA/T is used alone or more frequently together with silicate.

When used alone pay attention: if you reduce too much thixotropy you can have thin and fragile casts.

REOTAN LA/T develops synergistic actions when used together with other deflocculants.

REOTAN LA/T is the ideal dispersant when alkali introduction must be avoided: alumina, steatite, porcelain for electrical and sanitary use etc.

Applications

It is usually added directly in the mill, but, as it is an easily dispersible liquid, it can also be used in high speed blungers where clays are dissolved or in the storage tanks to correct the viscosity of the slips after the unloading of the mill.

When used in association with sodium silicates do not prepare a blend of Reotan LA/T and sodium silicates, as it causes precipitation. They have to be introduced into the slip separately.

REOTAN LA/T is a highly efficient product: 0.1% - 2% on the dry weight of the slip are the standard dosages.

Most common use:

Mill charge	Body 100
Water	30 ÷ 40
Reotan LA/T	0.1 ÷ 0.5

Storage and handling

REOTAN LA/T is stable to prolonged storage under condition where extreme temperatures do not occur. In order to maintain the performance of the product, store at room temperature and protect from frost. When stored in an original unopened packaging, not under direct sun rays, between +5° and +40°C the product has a shelf life of 35 months from the date of manufacture.

Packaging

110 kg drums and 1100 kg plastic tank

Material safety

Consult the Safety Data Sheet

ceramics.lamberti.com