



Carbocel ST/25-PTS

Chemical description

Mixture based on Carboxymethyl cellulose

Main use

Binder and thickening agent for glazes and engobes

Typical values

Appearance at 20°C: Granular Powder

pH (2% solution): 7 - 9.5

Viscosity (2% solution, Brookfield LVT @ 20°C, 60 rpm):
20 - 55 cP

Properties

CARBOCEL ST/25-PTS is a technical grade low viscosity rheological modifier based on Carboxymethylcellulose.

CARBOCEL ST/25-PTS guarantees excellent storage stability thanks to its special formula.

Its low molecular weight gives to the product low viscosity, a slight deflocculant action and moderate water retention.

These features make CARBOCEL ST/25-PTS a suitable binder and rheology modifier for engobes and glaze slips with high content of plastic raw materials.

Applications

The dosage of CARBOCEL ST/25-PTS, to add to the glaze, depends on the application and can vary from 0.05% to 0.5% on dry content.

CMC can be added directly into the mill at the beginning of the milling or during the final grinding stages; alternatively it can be added before applying the glaze preparing a 4 - 5% of water mother solution.

This solution is obtained simply by dissolving the product in water under agitation.

Typical dosages of CARBOCEL ST/25-PTS are:

- glaze for single firing applied by bell: 0.20 - 0.4% on solids
- glaze for double firing applied by bell: 0.05 - 0.1% on solids
- glazes for single firing applied by disk: 0.3 - 0.4% on solids

Storage and handling

CARBOCEL ST/25-PTS is stable to prolonged storage under conditions where extreme moisture does not occur. The shelf life is at least 24 months if this condition is observed.

Packaging

25 KGs five-ply multiwall paper bag having two plies coated with polyethylene.

Material safety

Consult the Safety Data Sheet

ceramics.lamberti.com

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