



Carbocel MM 250

Chemical description

Sodium salt of carboxymethyl cellulose

Main use

Binder and thickening agent for glazes and engobes

Typical values

Appearance at 20°C: Whitish Powder

pH (2% solution): 6 - 9.5

Viscosity (2% solution, Brookfield LVT @ 20°C, 60 rpm):
1000 - 3000 cP

Moisture at the packaging: max. 8%

Properties

CARBOCEL MM 250 is a purified grade medium viscosity Carboxymethyl cellulose (CMC).

CARBOCEL MM 250 is a suitable binder and rheology modifier for engobes and glaze slips with high content of plastic raw materials.

Applications

The dosage of CARBOCEL MM 250 depends on the application and can vary normally from 0.05 % to 0.4 % on dry content.

Tiles

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 2 - 5% of water mother solution.

Sanitaryware

The addition of CARBOCEL MM 250 can be done in different ways according to glaze feature, plant organisation and habits:

- Total or partial addition in powder form directly into the ball mill. To reduce grinding time, it is also possible to add it only in the last hour of grinding.
- Addition into the glaze slip unloaded from the mill is very often done with a predispersed paste composed by 4 - 8 parts of CARBOCEL MM 250 and 96 - 92 parts of water, obtained through a high speed stirrer (standard mixing time: 5-10 minutes). This paste is then kept at rest for 12-24 hours before addition. The addition to the glaze slip requires a "high speed" stirring, and a time between 20 minutes and 1 hour.
- Addition of CARBOCEL MM 250 in powder form directly into the glaze.

Storage and handling

CARBOCEL MM 250 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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