



Carbocel SG/35

Chemical Description

Carboxymethylcellulose sodium salt

Main Use

Binder and thickening agent for glazes and engobes.

Typical Values

Appearance at 20°C: powder

Viscosity (2% solution, Brookfield LVT @ 20°C, 60 rpm): 50 - 100 cP

pH (2% solution): 7 - 9.5

Moisture at the packaging: Max. 10%

Product Properties

CARBOCEL SG/35 is a technical grade low viscosity Carboxymethyl cellulose (CMC).

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

These features make CARBOCEL SG/35 a suitable binder and rheology modifier for engobes and glaze slips with high content of plastic raw materials.

Applications

The dosage of CARBOCEL SG/35, 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 powder in water under agitation.

Typical dosages of CARBOCEL SG/35 are:

- glaze for single firing and monoporosa applied by bell: 0.25 - 0.35% on solids
- glaze for double firing applied by bell: 0.05 - 0.1% on solids

ceramics.lamberti.com

- glazes for single firing applied by disk: 0.35 - 0.45% on solids

Storage and handling

CARBOCEL SG/35 is stable to prolonged storage under conditions where extreme moisture does not occur. The shelf life is at least twelve 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

This information and our technical recommendations, if any, both verbal and in writing, are given to the best of our knowledge, without any express or implied warranty, e.g., regarding their fitness for a specific purpose. Each user of our products is the sole responsible for assessing and ensuring compliance with all legal regulations including intellectual property laws and necessary certifications and authorizations with respect to the use, combination and processing of our products. Our technical recommendations do not release the user from the obligation to check its validity and to test our products as to their suitability and fitness for the intended processes and uses. The application, use and processing of both our products and the products manufactured by the user (on the basis of our technical recommendations, if any) are beyond our control and, therefore, the user is the sole responsible for them. Detailed information and instructions on handling the products and cautions to be observed in the use of them are available in our relevant Safety Data Sheet.