

DOLASAN 34

Filtration additive



Chemical basis:

Polyamine polycarboxylate

Characteristics:

Appearance: yellowish-brown liquid
Solids content: approx. 50 %
Solubility: water-miscible
Density (20 °C): approx. 1.16 g/cm³
pH (1 %): approx. 9
Viscosity (20 °C): approx. 500 mPas
Residue of ignition: max. 0.1 %

Shelf-life / Packaging:

12 months under proper storage conditions
drums of 30 and 150 kg

Application:

DOLASAN 34 is used to accelerate the dewatering of pressure casting bodies, without significantly altering the rheology of the slip. The filtration aid is also suitable for conventional casting.

On account of its cationic character the additive brings about the agglomeration of fine-grained particles. At the same time a network is produced on account of a functional group, that is also present. The particles only approach each other to such an extent that water can escape from between them, under the influence of pressure. This results in an acceleration of dewatering and an increase in the casting rate.

The addition of DOLASAN 34 permits the casting time to be reduced by 10 - 30 %. The casting has better strength when removed from the mould. Deformation phenomena are minimized.

The filtration aid is normally added to the make-up water during preparation. It is also possible to incorporate it in the slip. For this purpose the filtration aid should be mixed with water in a 1 : 3 ratio. Then immediately after it has been made up, the solution should be added slowly to the slip, using a rapid stirrer.

In general the amount added is 0.02 to 0.15 % of the solids content of the slip. The optimum amount to be added must be determined in your own trials.

The above results have been obtained from trials in our laboratory and plant. In the light of changing conditions they can serve only as a guide and are therefore offered without obligation. We ask you to observe the possible rights of third parties.



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Note:

DOLASAN 34 may leach salts from the body components, the salts which could lead to a brownish colouration of the body and mould. However, as these are organic salts, they will burn out completely.

The moulds can be treated with a mould cleaning agent, such as, for example, our GLYDOL 1131. In order to prevent clogging of the moulds, they should always be carefully cleaned, which means that they should often be rinsed through.

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