

GLYDOL 1170

Cleaning agent



Chemical basis:

Phosphonate preparation with anionic and non-inonic tensides

Characteristics:

Appearance: light-yellow liquid
Solubility: water-soluble
Density (20°C): approx. 1.09g/cm³
pH (original): approx. 6.3

Shelf-life / Packaging:

12 months under proper conditions
drums of 30kg and 140kg

Application:

GLYDOL 1170 is used for cleaning pressure casting resin moulds. Depending on the form, the material in use and the porosity of the mould, fine particles collect in the capillaries after a time and clog them, whereby the suction force of the mould is reduced.

The mode of action of GLYDOL 1170 depends on the fact that its wetting properties loosen deposits, and its complexing properties allow it to rinse out multivalent cations, e.g. calcium, magnesium or aluminium.

GLYDOL 1170 can either be used for cleaning the mould pores and capillaries, or for cleaning the mould surface. For cleaning the mould pores, a 2.5 - 5.0% solution is produced by mixing GLYDOL 1170 with water. This solution can be introduced into the mould channels or capillaries by water pressure or vacuum.

For cleaning the mould surface, GLYDOL 1170 can be applied to the mould undiluted or diluted with water in the ratio 1:1.

After a certain contact time, which depends in both cases on the degree of soiling or clogging, the mould should be rinsed through several times with water followed by air. During its contact time, the mould must be kept humid. For this purpose it should be closed.

A modification of the product reduces possible foaming tendency to a minimum.

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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In order to prevent too rapid ageing of the moulds, we recommend cleaning them before work breaks, before a machine stop, and at least 1 - 2 times during each working shift.

After the mould has been used, it can be stored in water. The addition of 2-4% GLYDOL 1170 dissolves further calcium deposits and prevents clogging of the capillaries. In case of longer storage in water, about 0.2% of a preservative such as, for example, our PREVENTOL® -types should be added to the water.

The use of PREVENTOL® is subject to national regulations of each individual country. For this purpose, please contact us by e-mail to Keramik@zschimmer-schwarz.com for further information on the approval in your country.

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Moulds that cannot be stored in water, can be treated with a GLYDOL 1170-solution which has been mixed with 0.2% of a preservative beforehand, and then the moulds can be wrapped in an airtight plastic foil.

General notes regarding mould cleaning:

- In order to prevent rapid ageing of the mould, it should be cleaned with GLYDOL 1170 even from the very beginning.
- The mould channels should be arranged in such way that the cleaning solution can reach sections which are difficult to access.
- You should take care that also the spaces between the mould and the metal pieces will be cleaned.
- The water hardness of the cleaning water used is very important. Even a water hardness of > 5 °dH can lead to calcium deposits in the pores. Water treatment can prevent this.
- The mould should always be kept humid, during use and also during storage.

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