

ACENOL M

CENOL M is a flocculant for the complete removing of glass particles from the grinding solution while processing glass. It is delivered as a white granulate which has to be solved in water prop to use.

It is used on commercially available as well as suitable self constructed flocculation systems equipped with a stirrer.

ACENOL M was specially adapted to AC- coolant concentrates in order to guarantee that the coolant solutions are not affected adversely by the flocculant. Before using ACENOL M with other coolant concentrates our application laboratory should be contacted.

Specification

Viscosity: 350 – 550 mPas DIN 53019 (20 °C)

(1 % solution in 10 % NaCl)

Preparation of the use solution:

The concentration of ACENOL M in the use solution is 0,2 %.

The solution is prepared in a round plastic (or stainless steel) container equipped with a stirrer. The desired amount of water is filled in and stirring is started. Then ACENOL M is added to the water in small portions. Every portion must have been dissolved before adding a new one. Take care that no nondissolved product settles at the bottom of the container. The solution is stirred for another hour. The prepared solution must be stirred up for 10 minutes every day. Its lifetime will be not longer than 1 week.

To prepare a 0,2% solution of the flocculant 100 l water and 200g ACENOL M are mixed corresponding to a volume of 350 ml.

All equipment parts (container, pumps, pipes) must be kept absolutely clean. A propeller stirrer with a rotation speed of at least 800 rpm is recommended. Solution equipment coming with commercially available flocculation systems normally are suitable to prepare the use solution.

Application

The use solution of ACENOL M is added under stirring directly into the flocculation tank filled with contaminated grinding solution. After another 3 minutes of stirring flocculation the flakes have formed and can be removed after having settled down at the bottom (e.g. by means of a scraper or by a draining valve). Excess water can be removed from the flocculate by using a suitable filter (e.g. by vacuum band filter or chamber filter press). The clean coolant solution is then fed back into the circuit.

In order to achieve a good flocculation result the amount of glass particles in the coolant solution should exceed 1 g/l.

Recommended use concentrations:

To prevent the danger of misdosing the amount of flocculant has to be adapted to the amount of glass particles in the grinding solution. If the amount of glass particles in the contaminated grinding solution is between 0,8 – 2 g/l we recommend to use 300 - 500 ml of the use solution per m³.

If the amount of glass particles is very low (< 0,6 g/l) we recommend to use between 50 – 200 ml per m³. To prevent an overdosing we recommend to start with a low quantity of flocculant and to increase it until the desired elimination rate is reached.

If the amount of glass particles is very high (up to 10g/l) the dosage can be increased up to 2 l per m³. Higher dosages over a longer period should be avoided (please contact our application laboratory).

Handling

ACENOL M does not need to be labelled in accordance with EC directives or respective national laws. For more safety information please see the Material Safety Data Sheet.

Storage

ACENOL M has to be stored in well-closed containers at temperatures between 5 to 40 °C. The minimum shelf-life is 12 months.