

HPMC dispersion

HPMC : Hypromellose or Hydroxypropyl methylcellulose



01

▶ Products with HPMC

- Tablet coating agent
- Ophthalmic medicine
- Antivirus (Nasal Spray)
- Controlled release formulation for oral administration

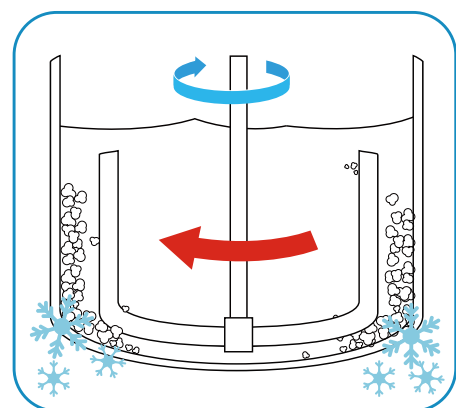
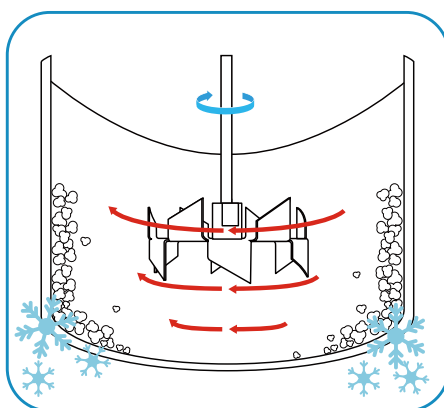
▶ General HPMC dispersion process

- 1) HPMC is an additive widely used in various manufacturing fields as an emulsifier and thickening stabilizer. In the pharmaceutical field, it is mainly used as a binder for tablet coatings.
- 2) However, HPMC does not dissolve or disperse well in water or alcohol at a temperature higher than room temperature.
- 3) Many companies are dissolving and dispersing HPMC using DISSOLVER or, in the case of mass production, ANCHOR MIXER.

02

Problems with existing processes

- 1) HPMC does not dissolve or disperse well in water or pure alcohol at a temperature higher than room temperature, so in the case of high temperature water, it is dispersed by lowering the temperature. There is a hassle to do.
- 2) Although HPMC is sometimes used alone, it is often added to components such as TiO₂. However, if the dispersion or dissolution is not perfect, the coating surface becomes uneven and the quality deteriorates.
- 3) Also, although not in many cases, when HPMC is dispersed in high concentration, the viscosity increases a lot, so it is difficult to completely disperse it with DISSOLVER or ANCHOR MIXER.



Even such a difficult process can be innovatively improved with MIXENMILL.
Please click the button below to receive more SOLUTION.

[MORE SOLUTIONS](#)