

“Alcogel” disinfectant

Ethanol and Isopropanol based disinfectants are widely used. There are various approaches to distribute the alcohol for performing its task and one of the most common products, in particular for hand disinfection, is in a gel form (“Alcogel”).

In addition to providing a convenient format, the gel can also prevent premature evaporation of the alcohol and prolongs contact time. One of the factors regulating evaporation rate is the nature of the rheology modifier (thickener) used. In below example we have employed a cellulose based thickener, cellulose having multiple hydrogen bonding (i.e. alcohol functionalities), which are known for prolonging evaporation of protic solvents like alcohols.



“Alcogel”, formulated as per below, allowed to run down a vertical surface



Appearance of ready made “Alcogel”

Formulation:

Alcohol	70 % (w/w) (corresponding to 71 - 75 v/v depending on Alcohol)
Glycerol (optional)	1 % (w/w)
Bermocoll Prime 1000	0.7 % (w/w)
Water	to 100 %

Procedure: To a mixture of alcohol and water, Bermocoll Prime 1000 is added. The mixture is allowed to stir until complete Bermocoll dissolution. Glycerol (optional) is added under stirring.

Bermocoll Prime 1000 ratio can be varied to reach the desired rheological properties. Furthermore, as noted above the Bermocoll Prime 1000 is a cellulose based thickener which gives it water/moisture-retaining properties.

Please contact your sales representative for inquires and sample!



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