

**Dk FineChem™**

# LIQUID DETERGENTS THICKENER

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**KFDA**  
 식품의약품안전청  
 Korea Food & Drug Administration

## Detergent Thickener 50,000cps viscosity

Type	Chromaticity	Dispersion	Transparency	Antibacteria
FMD-3923	☆	☆	☆	☆
FMD-4923	☆☆	☆☆	☆☆	☆
FMD-4923B	☆☆	☆☆	☆☆	☆☆
FMD-4923C	☆☆	☆☆	☆☆	☆
FMD-4923D	☆☆	☆☆	☆☆	☆
FMD-4923BD	☆☆	☆☆	☆☆	☆☆
FMD-4923CD	☆☆	☆☆	☆☆	☆
FMD-4923BCD	☆☆	☆☆	☆☆	☆☆

## Detergent Thickener 70,000cps viscosity

Type	Chromaticity	Dispersion	Transparency	Antibacteria
FMD-3933	☆	☆	☆	☆
FMD-4933	☆☆	☆☆	☆☆	☆
FMD-4933B	☆☆	☆☆	☆☆	☆☆
FMD-4933C	☆☆	☆☆	☆☆	☆
FMD-4933D	☆☆	☆☆	☆☆	☆
FMD-4933BD	☆☆	☆☆	☆☆	☆☆
FMD-4933CD	☆☆	☆☆	☆☆	☆
FMD-4933BCD	☆☆	☆☆	☆☆	☆☆

## Detergent Thickener 100,000cps viscosity

Type	Chromaticity	Dispersion	Transparency	Antibacteria
FMD-4943	☆☆	☆☆	☆☆	☆
FMD-4943B	☆☆	☆☆	☆☆	☆☆
FMD-4943C	☆☆	☆☆	☆☆	☆
FMD-4943D	☆☆	☆☆	☆☆	☆
FMD-4943BD	☆☆	☆☆	☆☆	☆☆
FMD-4943CD	☆☆	☆☆	☆☆	☆
FMD-4943BCD	☆☆	☆☆	☆☆	☆☆

# The Making of Liquid Detergent Process

## 1. Soap premix manufacture

Liquid detergents contain a combination of soap and synthetic surfactants. These are made first as a premix, after which other ingredients are blended into it. This stage simply consists of neutralizing fatty acids with either caustic soda (NaOH) or potassium hydroxide.

## 2. Ingredient mixing

All ingredients except the enzymes are added and mixed at a high temperature. The ingredients used in the manufacturing of liquid detergents are usually sodium tripolyphosphate, caustic soda, sulphonic acid, perfume and water.

## 3. Enzyme addition

In this stage, the mixture is cooled and milled, and the enzymes are added in powder&liquid form.

For manufacturing liquid detergent, both the batch as well as continuous blending processes is used. Both batch and continuous blending processes are used to manufacture liquid and gel cleaning products. Stabilizers may be added during manufacturing to ensure the uniformity and stability of the finished product.

In a typical continuous process, dry and liquid ingredients are added and blended to a uniform mixture using in-line or static mixers.

Recently, more concentrated liquid products have been introduced and a technique for developing these products is through the use of new high-energy mixing processes in combination with stabilizing agents.

## MEICELL™ classification

MEICELL™

Viscosity

Modification

DFC  
Hypromellose  
Brand name

4923

45,000~55,000 mpa.s

4933

65,000~75,000 mpa.s

4943

75,000~120,000 mpa.s

B

Resistant to fungi and bacteria

C

Improved chromaticity

D

Increase distribution speed and transparency

MEICELL™FMD-4923BC : DFC Hypromellose , Viscosity 45,000~55,000 mpa.s, Improved chromaticity with antifungi

MEICELL™FMD-4943BCD : DFC Hypromellose , Viscosity 75,000~120,000 mpa.s, Improved chromaticity/antifungi/transparency

## MEICELL™ for Detergent

### Advantage

- Cotton source
- Easy to handle powder form
- Highly efficient thickener
- Foam stability
- Excellent salt / electrolytes tolerance
- Inherent, primary biodegradability
- High degree of solution clarity
- Can be used in personal care formulations
- South korea hazardous stability test approved

## Tech+ additional support

EMAIL: [sales@dkfinechem.com](mailto:sales@dkfinechem.com)  
[www.dkfinechem.com](http://www.dkfinechem.com)

