

Mixing Parameter

Suspension < 2 %

Step 1 - Pre-grinding

Level 4 (1200 rpm)				
Jar size	15 - 30 ml	50 - 100 ml	200 ml	300 - 500 ml
Time (min.)	2:30	3:30	5:00	10:00
Stirrer	SMB	SMB	SMB	SMB

Step 2 - Main mixing process

Level 7 (1900 rpm)				
Jar size	15 - 30 ml	50 - 100 ml	200 ml	300 - 500 ml
Time (min.)	1:30	2:00	3:30	4:40
Stirrer	SMB	SMB	SMB	SMB

Suspension > 2 %

Level 8 (2150 rpm)				Level 7 (1900 rpm)
Jar size	15 - 30 ml	50 - 100 ml	200 ml	300 - 500 ml
Time (min.)	3:00	3:50	6:45	9:30
Stirrer	SMB	SMB	SMB	SMB

Emulsion (Solution ointment)

Level 8 (2150 rpm)				Level 7 (1900 rpm)
Jar size	15 - 30 ml	50 - 100 ml	200 ml	300 - 500 ml
Time (min.)	2:00	2:20	4:10	5:30
Stirrer	Disp. Blade	Disp. Blade	Disp. Blade	SMB

Soft in Soft

Level 7 (1900 rpm)				
Jar size	15 - 30 ml	50 - 100 ml	200 ml	300 - 500 ml
Time (min.)	1:40	2:10	4:10	5:10
Stirrer	Disp. Blade or SMB	Disp. Blade or SMB	Disp. Blade or SMB	SMB

Emulsion*

Step 1 - combining phase

Level 1 (600 rpm)				
Jar size	15 - 30 ml	50 - 100 ml	200 ml	300 - 500 ml
Time (min.)	0:30	0:30	0:30	1:00
Stirrer	Disp. Blade	Disp. Blade	Disp. Blade	SMB

Step 2 - emulsions phase

Level 7 (1900 rpm)				
Jar size	15 - 30 ml	50 - 100 ml	200 ml	300 - 500 ml
Time (min.)	1:00	1:00	1:00	2:00

Step 3 - cool down phase

Level 1 (600 rpm)				
Jar size	15 - 30 ml	50 - 100 ml	200 ml	300 - 500 ml
Time (min.)	10:00	10:00	10:00	10:00

Use cool down phase and emulsions phase alternative until compound reaches room temperature.

Gel

Step 1 - moistening

Level 8 (2150 rpm)				Level 7 (1900 rpm)
Jar size	15 - 30 ml	50 - 100 ml	200 ml	300 - 500 ml
Time (min.)	0:30	0:30	0:30	1:00
Stirrer	Disp. Blade	Disp. Blade	Disp. Blade	SMB

Step 2 - swelling phase

Level 1 (600 rpm)				
Jar size	15 - 30 ml	50 - 100 ml	200 ml	300 - 500 ml
Time (min.)	8:30	9:30	10:00	10:00

Alternate the mixing steps at least twice or until a homogeneous gel structure is reached.

Specialties

Level 4 (1200 rpm)				
Jar size	15 - 30 ml	50 - 100 ml	200 ml	300 - 500 ml
Time (min.)	5:00	7:30	12:55	17:00
Stirrer	Disp. Blade or SMB	Disp. Blade or SMB	Disp. Blade or SMB	SMB