

Montanov® 82 vs. Montanov® 68

Choosing the Right Natural Emulsifier for Your Formulation

What Are Montanov® Emulsifiers?

Montanov emulsifiers are naturally derived, non-ionic oil-in-water emulsifiers produced from plant sugars and vegetable fatty alcohols. They create **lamellar liquid crystal emulsions**, which closely mimic the lipid structure of healthy skin.

Benefits include:

- PEG-free
- Naturally derived
- Ecocert/COSMOS accepted
- Excellent skin feel
- Long-lasting hydration
- Stable emulsions

Montanov® 82

INCI

Cetearyl Alcohol (and) Coco-Glucoside

Produces

- Lightweight lotions
- Fluid emulsions
- Elegant skin feel
- Fast absorption
- Low tack
- Minimal waxiness

Best Used In

- Facial lotions
- Body lotions
- Facial milks
- Gel-creams
- Lightweight hand lotions
- After-sun lotions
- Men's moisturizers
- Daily moisturizers

Best Skin Types

- Oily
- Combination
- Normal
- Younger skin

Recommended Usage

Ingredient	Percentage
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Montanov® 82	2–5%
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Oil Phase	8–20%
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Montanov® 68

INCI: *Cetearyl Alcohol (and) Cetearyl Glucoside*

Produces

- Rich creams
- Thick emulsions
- Excellent cushion
- Luxurious skin feel
- Protective moisture barrier

Best Used In

- Facial creams
- Night creams
- Barrier creams
- Rich body creams
- Hand creams
- Baby creams
- Ceramide creams
- Mature skin formulations

Best Skin Types

- Dry
- Mature
- Sensitive
- Compromised barrier

Recommended Usage

Ingredient	Percentage
Montanov® 68	3–6%
Oil Phase	15–30%

Quick Comparison

Feature	Montanov® 82	Montanov® 68
Texture	Light	Rich
Viscosity	Low	Medium to High
Absorption	Fast	Moderate
Finish	Silky	Creamy
Best For	Lotions	Creams
Oil Phase	8–20%	15–30%
Usage Level	2–5%	3–6%

Which One Should You Choose?

Choose **Montanov® 82** if you want:

- Lightweight daily lotion
- Facial milk
- Gel-cream
- Fast-absorbing moisturizer
- Summer formulations

Choose **Montanov® 68** if you want:

- Rich facial cream
- Night cream
- Barrier moisturizer
- Body cream
- Winter moisturizer

Manufacturing Procedure

Phase A – Water Phase

Combine:

- Distilled water
- Hydrosols
- Glycerin
- Water-soluble humectants

Heat to **158–167°F (70–75°C)**.

Phase B – Oil Phase

Combine:

- Carrier oils
- Butters (if using)
- Fatty alcohols (optional)
- Esters
- **Montanov® 82 or Montanov® 68**

Heat to **158–167°F (70–75°C)** until the emulsifier is fully melted.

Emulsification

1. Combine the oil and water phases according to your validated manufacturing procedure.
2. Mix using moderate to high shear until a smooth emulsion forms.
3. Continue mixing as the emulsion begins cooling.

Cool Down

Continue slow mixing while cooling.

Below **104°F (40°C)** add:

- Preservative
- Botanical extracts
- Vitamins
- Essential oils or fragrance (if desired)
- Heat-sensitive ingredients
- pH adjusters, if needed

Professional Formulation Tips

Count the emulsifier as part of the oil phase.

Example

Carrier Oils 15%

Butter 5%

Montanov® 68 4%

Total Oil Phase = 24%

Don't judge viscosity immediately.

Lamellar emulsions continue developing viscosity for **24–48 hours** after manufacture.

Match the emulsifier to the desired texture.

Use **Montanov® 82** when elegance and fast absorption are priorities.

Use **Montanov® 68** when richness, cushion, and barrier support are desired.

Perform stability testing.

Evaluate:

- Appearance
- pH
- Viscosity
- Separation
- Centrifuge stability (if applicable)
- Heat/cold stability
- Long-term storage

At a Glance

Desired Product Recommended Emulsifier

Facial Lotion	Montanov® 82
Facial Milk	Montanov® 82
Gel-Cream	Montanov® 82
Body Lotion	Montanov® 82
Facial Cream	Montanov® 68
Night Cream	Montanov® 68
Barrier Cream	Montanov® 68
Rich Body Cream	Montanov® 68
Hand Cream	Montanov® 68
Baby Cream	Montanov® 68

Key Takeaways

- **Montanov® 82** creates lightweight, fluid, fast-absorbing emulsions and is ideal for lotions, milks, and gel-creams.
- **Montanov® 68** creates rich, structured creams with a luxurious skin feel and is well suited for creams, barrier products, and formulations with higher oil phases.
- Both emulsifiers are naturally derived, PEG-free, non-ionic, and produce lamellar liquid crystal emulsions that support skin moisturization and stability.
- Always include the emulsifier as part of your **total oil phase** and allow **24–48 hours** for the emulsion to develop its final viscosity before evaluating the finished product.

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