

Pellicer is...

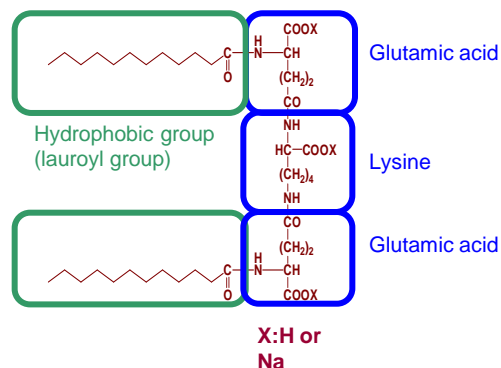
- Pellicer is a gemini amphiphilic compound which has two hydrophilic tails and 3 hydrophilic groups, deriving from natural fatty acids and amino acids.
- Pellicer L-30's source materials are all plant derived. Any source materials derive from petroleum or animals are not contained. (*Pellicer LB-10 contains Butylene Glycol whose source material is petroleum derived.)
- Repairs damaged skin by permeating into stratum corneum and improves barrier function of skin through the similar function with Ceramide.
- Penetrates into hair interior portion and improves strength, thickness, water content of damaged hair and gives resilience and smoothness.
- Expresses emulsification and dispersion function at very low concentration. Compared to nonionic surfactants, excels in texture and decreases emulsifying cost.
- Gels various kind of oil by the method of D-phase emulsification. Enables it to formulate make up remover or massage oil which are tender to skin.

Oil gelation function of Pellicer

**Gelates various kind of oil through D-phase emulsification method.
Excellent-texture gels can be formulated.**

- Gelates various kind of oil through D-phase emulsification method.

- Forms oil gel with 0.3% of Pellicer (solid).
- Gels various kind of oil including Silicone.
- Transparent gel can be formulated.
- **Smooth and fine-texture gel can be formulated.**
- **Expresses skin care / hair care effect as well.**
- **Pellicer L-30 is recommende for oil gelation function.**



Chemical structure of Pellicer

Application examples

- Make up remover gel, Make up remover milk
- Massage oil gel
- Hair treatment gel

Recommended use level

- Pellicer L-30: 1.0%
(Solid base concentration: 0.3%)

Pellicer L-30 is recommended for oil gelation function rather than Pellicer LB-10.

General Information

Grade lineup

Trade name	Pellicer LB-10	Pellicer L-30
INCI Name* (Concentration %)	Sodium Dilauramidoglutamide Lysine (10%) Butylene Glycol (10%) Water (80%)	Sodium Dilauramidoglutamide Lysine (29%) Water (71%)
Packing	18kg/Can	1kg/Can, 18kg/Can

*INCI NAME of Pellicer LB-10 is under application as of July 15, 2010.

Manufactured by

Asahi Kasei Corporation

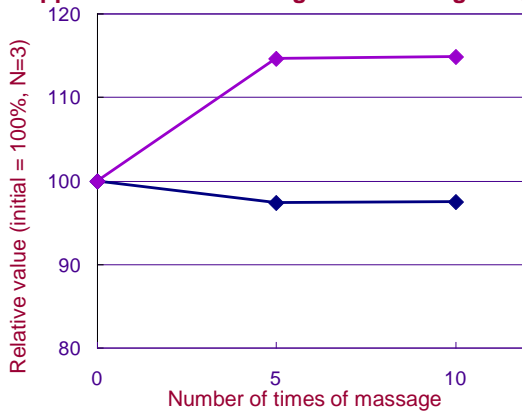
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Pellicer oil make up remover gel (Formulation no. MY-137) expresses either equaling or surpassing cleansability to oil make up removers in the marketplace, for lip stick or mascara.

	Pellicer gel (MY-137)	Nonionic surfactant 5% formulated D-phase gel	Nonionic surfactant 10% formulated D-phase gel	Commercial make-up remover			
				Oil type Mineral oil and nonionic surfactant based	Oil type Ester oil and nonionic surfactant based	Gel type Water, silicone oil, nonionic surfactant and thickener based	Gel type Ester oil, water, nonionic surfactant and thickener based
Lip stick							
Water-proof mascara							

Skin care effect of Pellicer make up remover gel

Pellicer make up remover gel is mild to skin, as well as it is expected to have skin care effect (i.e. Improvement in hydration level of the skin). Pellicer gel can be applied to skin care oil gels or massage oil gels.



Test sample: Pellicer Gel (MY-137)
 Skin of the medial side of the forearm (4cmx4cm)
 Massage time: 3min
 Washing time with water: 30sec
 Sample: 0.2g
 Measurement by CORNEOMETER CM825 (Corneometer value (a.u.))
 TEWAMETER TM300 (TEWL)

Clear oil gel

Gel can be transparent by reducing the difference of refractive index between oil phase and aqueous phase.



Make up remover gel recommended formula (MY-137)

This is a formulation of Pellicer-blended oil make up remover gel which excels in cleansability and moisture-feeling after cleansing.

***Know-how is needed to formulate and produce gels. For details, please request for more information.**

<Preparation of Gel (100g Scale)>

1. Stirring for 2 minutes the aqueous phase at room temperature(500rpm)
2. With stirring the oil phase at about 7g / min into the aqueous phase.(500rpm)
3. After the oil phase is added, stirred for 10 minutes(500rpm)
4. Degassed 3 times

Mineral oil based make up remover gel MY-137

Ingredients	wt%
Pellicer L-30	1
Glycerin	20
70% Sorbitol	5
Mineral oil(5.8~8.9mm ² /s)	47
Isononyl isononanoate	15
Dimethicone (6mm ² /s)	5
Cyclopentasiloxane	5
PEG-20 Glyceryl triisostearate	2