

iGEL 305

INCI Name (US): Polyacrylamide (and) C13-14 Isoparaffin (and) Laureth-7.

INCI Name (EU): Polyacrylamide (and) C13-14 Isoparaffin (and) Laureth-7.

CAS #: 9003-04-7 & 64742-47-8 & 3055-97-8

**General Information/
Characteristics:**

iGel 305 is a rheology modifier, stabilizer, thickener and emulsifier. It swells fast and allows you to create gel or cream immediately without neutralization or heat. It can emulsify all kinds of oil and disperse pigment and physical sunscreen. It is recommended to be used in skin cream, creamy gel, as single or united emulsifier.

Benefits / Application:

- Does not need pre-mix, heat or extra equipment. Can be added in any step of emulsifying.
- Good thickening performance at low dosage.
- Particularly effective when formulating during pH 3.5 ~ 11.5.
- Applicable to all kinds of oil such as vegetable oil, polar and non-polar oil, without heating or other extra treatment.
- Applicable to formula containing high content silicone.
- Stabilize organic or inorganic pigment in formula.
- Thicken some formula containing 40% alcohol, other organic solvent and polyol.
- Resist shearing for a long time.
- Maintain viscosity under UV radiation.

Applications:

- Cream, lotion, creamy gel.
- Make-up foundation and sunscreen cream.
- Formula containing polar solvent, alcohol and polyol.
- Formula containing silicone or AHA.

Formulations Advices:

Option 1- Blend iGel 305 with oil phase. Add them into the water phase. Mix uniformly.

Option 2- Heat oil phase and water phase separately to 75-80°C. Add oil phase into water phase while mixing. Then add iGel 305

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into the emulsion 60°C. Homogenize moderately for 15-20 minutes.

Regulatory Status: Dosage: Typically used solely: 2.0 ~ 5.0%, and with other emulsifier: 0.2 ~ 2.0%

Physico-Chemical Properties:	Appearance	Emulsion
	Color	White
	Solid content (%)	45.0 - 50.0
	Viscosity (25°C,mPa·s)	1500 – 4500
	Acrylamide residual (ppm)	≤2

These values indicate typical specification; they are not intended to be used as product specifications.

Shelf Life / Storage Conditions 24 months if stored. Keep in a cool, dry, ventilated and lightless place.

Packaging: 35 Kg/drum

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Version:

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