

AQUAGEL 35C

INCI Name

POLYACRYLAMIDE (and) C13-14 ISOPARAFFIN
(and) LAURETH-7

Description

AQUAGEL 35C 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 also has a good electrolyte tolerance. It is recommended to be used in skin cream, creamy gel, as single or united emulsifier.

Specification

Parameter	Value
Appearance	White to yellowish emulsion
Solid content (%)	45.0-50.0
pH (2%aq., 25°C)	5.5-8.0
Emulsion viscosity (25°C, mPa·s)	1500-4500
Viscosity (25°C, 2%soln, mPa·s)	60,000-90,000
Viscosity (25°C, 3%soln+0.1%NaCl, mPa·s)	32000-50000
Acrylamide residual (ppm)	0~2

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

Properties

- Needn't 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 nonpolar 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

Formula Guidelines

Typically used at a level of

Used solely: 2.0~5.0%.

Used with other emulsifier: 0.2~2.0%

- How to handle in formula –

Option 1. Blending AQUAGEL 35C 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 AQUAGEL 35C into the emulsion 60°C. Homogenize moderately for 15-20 minutes.

Storage & Handling

Standard Packing: 35 kg/drum

Storage: Keep in Cool, Dry, Ventilated and Lightless Place.

Storage life: 24months

Notice: Mix until uniform before use or sampling.

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