

AQUAGEL 55

INCI Name

ACRYLAMIDE /SODIUM ACRYLATE COPOLYMER
(and) C13-14 ISOPARAFFIN (and) LAURETH-7

Description

AQUAGEL 55 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.

Specification

Parameter	Value
Appearance	White or translucence emulsion
Solid content (%)	45.0-50.0
Viscosity (25°C,mPa·s)	1500-4500
Viscosity (25°C,2%soln,mPa·s)	55,000-85,000
Acrylamide residue (ppm)	≤2.0
Residual Acrylic Acid(ppm)	≤20.0

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

Properties

- 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.
- Good thickening performance at low dosage
- Stabilize organic or inorganic pigment in formula; Thicken some formula containing 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, Blend AQUAGEL 55 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 55 into the emulsion 60°C.

Homogenize moderately for 15-20 minutes.

Storage & Handling

Standard Packing: 35kg/drum

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

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