

iGEL 940

INCI Name (US): Carbomer

INCI Name (EU): Carbomer

CAS #:

**General Information/
Characteristics:**

iGel 940 is a crosslinked polyacrylate polymer with strong moisturizing ability, acting as high-efficient & low-dosage thickener and suspending agent. It can be neutralized by alkali to form clear gel. Once its carboxyl group is neutralized, molecule chain expands extremely and viscosity comes up, due to mutually exclusion of negative charge. It can enhance yield value and rheology of liquid substances, thus it is easy to get insoluble ingredients (granola, oil drop) suspended at low dosage. It is widely used in O/W lotion and cream as favorable suspending agent.

Benefits / Application:

- ♦ High-efficient thickening, suspending and stabilizing ability at low dosage
- ♦ Outstanding short flow (non-drip) property
- ♦ High clarity
- ♦ Resist temperature effect to viscosity

Applications:

- ♦ Transparent hydroalcoholic gel
- ♦ Lotion and cream
- ♦ Hair styling gel
- ♦ Shampoo
- ♦ Body wash

Formulations Advices: 0.2-1.0%

Regulatory Status:

Following operations are forbidden, otherwise result in loss of thickening ability:

- ♦ Lasting stir or high-shear stir after neutralization
- ♦ Lasting UV irradiation
- ♦ Combine with electrolytes

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Physico-Chemical Properties:

Aspect	Fluffy, Powder
Color	White
Viscosity: (mPa.s)(20 rpm at 25°C, Neutralized Solution)	0.2%: 10000-30000 0.5%: 45000-70000
Solution Clarity (%Transmission, 420 nm light, 0.5% water solution)	≥85
Residual Ethyl cetate/Cyclohexane	≤0.45 %
Residual acrylic acid (%)	≤0.25 %
Loss on drying (%)	≤2.0
Bulk Density (g/100 mL)	19.5-23.5
<u>Heavy metals:</u>	
As (ppm)	≤2.0
Pb+As+Hg+Sb (ppm)	≤10

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

Shelf Life / Storage Conditions

24 months if stored. Keep in cool, dry, ventilation and lightless place.

Packaging:

20 kg/carton

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