

## TC-CARBOMER 640

### INCI NAME

CARBOMER

### Description

TC-CARBOMER 640 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. It can enhance yield value and rheology of liquid substances, thus it is easy to get insoluble ingredients (granular, oil drop) suspended at low dosage. It is widely used, especially in high clarity formulas such as clear gel, clear hair styling gel and clear hydroalcoholic gel, etc.

### Specification

Parameter	Value	
Appearance	Fluffy, White Powder	
Viscosity (mPa.s) (20 rpm at 25°C, Neutralized Solution)	0.2%	13000-30000
	0.5%	40000-60000
Clarity (%Transmission, Neutralized Solution 420 nm light)	0.2% Water solution	≥95
	0.5% Water solution	≥95
Residual Ethyl Acetate / Cyclohexane (%)	≤0.8	
Residual acrylic acid (%)	≤0.25	
Loss on drying (%)	≤2.0	
Bulk Density (g/100 mL)	19.5-23.5	
Heavy Metals	As (ppm)	≤2
	Pb+As+Hg+Sb (ppm)	≤10

These values indicate typical specifications, they are

not intended to be used as product specifications.

### Properties

High clarity under high dosage

High-efficient thickening, suspending and stabilizing ability at low dosage

Outstanding short flow (non-drip) property

Resist temperature effect to viscosity

### Applications

Lotion and cream

Shampoo

Body wash

High clarity formulas:

Clear gel

Clear hydroalcoholic gel

Hair styling gel

### Formula Guidelines

0.2-1.0%

### Cautions

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

### Storage & Handling

**Standard Packing:** 20kg/carton

**Storage:** Keep in cool, dry, ventilated and lightless place.

**Shelf life:** 24 months

**GUANGZHOU TINCI MATERIALS TECHNOLOGY CO., LTD.**

8<sup>th</sup> Kangda Road, Yunpu Industrial Zone, Huangpu District,  
Guangzhou, China

TEL: 86-20-82251159 FAX: 86-20-82250169

WEBSITE: www.tinci.com

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