

### TC-CARBOMER 340T

#### INCI NAME

CARBOMER

#### Description

TC- CARBOMER 340T 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 with high clarity. 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 (granule, oil drop) suspended at low dosage. It is widely used in O/W lotion and cream as favorable suspending agent.

#### Specification

Parameter		Value
Appearance		Fluffy, White Powder
Viscosity: (mPa.s) (20 rpm at 25°C, Neutralized Solution)	0.2%	19000-35000
	0.5%	40000-70000
Solution Clarity (%Transmission, 420 nm light)	0.2% water solution	≥95
	0.5% water solution	≥95
Residual Benzene (%)		≤0.50
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-efficient thickening, suspending and stabilizing ability at low dosage  
Outstanding short flow (non-drip) property  
High clarity  
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:** 21kg/box

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

**Shelf Life:** 24 months

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