

### TC-CARBOMER FD2010

#### INCI NAME

Acrylates/C10-30 Alkyl Acrylate Crosspolymer

#### Description

TC-CARBOMER FD2010 is a hydrophobically modified crosslinked acrylate copolymer. It acts as high-efficient & low-dosage thickener and suspending agent as other traditional carbomer resin, also provides electrolyte tolerance and unique sensory benefits in formulas. Its low dispersion viscosity before neutralization, making it easy to disperse, transport and process. It also can be used in systems with moderate surfactant content, making it an ideal choice for many applications.

#### Specification

Parameter		Value
Appearance		Fluffy, White Powder
Wetting Time(3%aq, 25℃, minutes)		≤25
Viscosity (20 rpm at 25℃, Neutralized Solution,mPa.s)	1% aq	47000~77000
	1% aq+1%NaCl	≥4000
Solution Clarity (%Transmission, Neutralized Solution 420 nm light,1% aq)		≥85
Heavy Metals	As (ppm)	≤2
	Pb+As+Hg+Sb (ppm)	≤10
Residual acrylic acid (%)		≤0.25
Loss on drying (%)		≤2.0
Packing density (g/100mL)		≥25.0
Residual Ethyl Acetate / Cyclohexane (%)		≤0.45

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

#### Properties

Low dispersion viscosity, rapid wetting and swelling time

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

High clarity

Excellent electrolyte tolerance

Compatibility with all kinds of surfactants

#### Applications

Transparent hydroalcoholic gel

Lotion and cream

Hair styling gel

Shampoo

Body wash

#### Formula Guidelines

Typically used at a level of 0.2-1.5%.

#### Cautions

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

- Lasting stir or high-shear stir after neutralization
- Lasting UV irradiation

#### Storage & Handling

**Standard Packing:** 20kg/carton

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

**Shelf life:** 24 months

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