

TC-CARBOMER 356

INCI NAME

CARBOMER

Description

TC-Carbomer 356 is a crosslinked acrylic polymer with strong hygroscopicity, acting as high-efficient thickener and suspending agent. TC-Carbomer 356 can be used in an array of oral care products including toothpastes and gels, desensitizing and whitening products as well as denture adhesives. They primarily function as efficient thickeners and binders and provide suspension of non-soluble actives or excipients. The viscoelastic structure of Carbomer polymers imparts shear-thinning rheology and low thixotropy which enables a clean ribbon of toothpaste to be extruded from the tube. Additionally, Carbomer polymers can be used to aid in the adhesion and delivery of dental formulations to the teeth and may increase the retention time of flavoring agents.

Specification

Parameter	Value
Appearance	Fluffy, White Powder
Loss on drying(%)	≤2.0
Viscosity (mPa.s, 20 rpm at 25°C, 0.5% Neutralized Solution, dry basis)	20000-42000
Solution Clarity (%Transmission, 0.5% Neutralized Solution 420 nm light)	≥90

Heavy Metals	As (ppm)	≤1
	As+Hg+Sb+Pb (ppm)	≤20
	Fe (ppm)	≤15
	Residual Acrylic Acid (ppm)	≤1000
	Residual Ethyl Acetate (%)	≤1.0
	Residual Benzene (ppm)	≤0.5
	Residual Cyclohexan(%)	None
	Bulk Density (g/100 mls)	19.5-23.5

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

Properties

Efficient co-binder at low usage levels
 Suspending agent for non soluble actives or excipients
 Improve long term stability of peroxide gel systems
 Compatible with commonly used formulation ingredients

Applications

Oral care products including toothpastes and gels, desensitizing and whitening products as well as denture adhesives.

Formula Guidelines

0.2-1.0%

Cautions

Following operations are forbidden, which can reduce the loss of thickening ability:

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

Storage & Handling

Standard Packing: 20kg/drum

Storage: Keep in cool, Dry, Ventilation and Lightless Place.

Shelf life: 24 months

GUANGZHOU TINCI MATERIALS TECHNOLOGY CO., LTD.

Kangda Road No.8, Yunpu Industrial Zone,
 Huangpu Region, Guangzhou
 TEL: 86-86-20-82251159 FAX: 86-20-82250169
 WEBSITE: www.tinci.com

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