

TC-CARBOMER 380

INCI NAME

CARBOMER

Description

TC- Carbomer 380 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 (granular, 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% 13000-30000 0.5% 40000-60000
Solution Clarity (%Transmission, 0.5%Neutralized Solution 420 nm light)	≥85
Heavy As (ppm)	≤2
Metals Pb+As+Hg+Sb (ppm)	≤10
Moisture Content(%)	≤2.0
Residual Acrylic Acid(%)	≤0.25
Residual Ethyl Acetate/ Cyclohexan(%)	≤0.45
Bulk Density (g/100 mls)	21.5-23.5

These values indicate typical specification, 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

Clear hydroalcoholic gel .

lotion and cream

Hair styling gel

Shampoo

Body wash

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, Ventilation and Lightless Place.

GUANGZHOU TINCIMATERIALS TECHNOLOGY CO., LTD.

Kangda Road No.8, Yunpu Industrial Zone,
Huangpu Region, Guangzhou

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

WEBSITE: www.tinci.com

Doc NO.: TC-MM-技术服务-***

Version: A/0

Last update: 2007-09-14