

TC-CARBOMER 396

INCI NAME

CARBOMER

Description

TC- Carbomer 396 is a crosslinked polyacrylate polymer with strong moisturizing ability, acting as high-efficient & low-dosage thickener, stabilizer and suspending agent. It can enhance yield value and rheology of liquid substances, thus it is easy to get insoluble ingredients (granula, oil drop) suspended at low dosage. It is widely used in HI&I applications, personal care products and those formulations where oxidative stability and cost effectiveness are key requirements.

Specification

| Parameter | Value |
|---|--------------------------------------|
| Appearance | Fluffy, White Powder |
| Viscosity (mPa.s, 20 rpm at 25°C, 0.5%, neutralized solution) | 68000-80000 |
| Solution Clarity (%Transmission, 420 nm light, 0.5% water solution) | ≥85 |
| Residual benzene (%) | ≤0.50 |
| Loss on drying (%) | ≤3.0 |
| Heavy metals | As (ppm) ≤2 Pb+As+Hg+Sb (ppm) ≤10 |

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, cost-effective
- Excellent stability in oxidizing systems such as those containing chlorine bleach or peroxides.
- Effective across a broad range of pH
- Suspension and stabilization of insoluble

materials and particulates.

- Improved vertical cling which minimizes dripping and increases surface contact times.
- Shear thinning rheology suitable for non aerosol sprayable or pumpable product formulations.

Applications

Transparent hydroalcoholic gel
Lotion and cream
Hair styling gel
Shampoo
Body wash
Automatic dishwashing liquids
General sanitizing applications
Laundry pre-spotters and treatments
Hard surface cleaners
Toilet bowl cleaners
Mold and mildew cleaners
Oven cleaners
Gelled fuels
Alkaline battery

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, Ventilated and Lightless Place.

Shelf Life: 24 months

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