

TC-CARBOMER FD21

INCI NAME

Acrylates/C10-30 Alkyl Acrylate Crosspolymer

Description

TC-CARBOMER FD21 is a hydrophobically modified crosslinked polyacrylate polymer. 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. It can quickly and easily self-wetting without any mixing required. It can be used in a variety of personal care applications.

Specification

| Parameter | Value |
|--|----------------------|
| Appearance | Fluffy, White Powder |
| Loss on drying (%) | ≤2.0 |
| Wetting Time (0.5% Dispersion, 25°C, minutes) | ≤6 |
| Viscosity (20 rpm at 25°C, 0.5% mucilage* at 7.3-7.8, mPa.s) | 45000~65000 |
| Solution Clarity (%Transmission, 420 nm light, 0.5% mucilage* at 7.3-7.8) | ≥92 |
| Residual acrylic acid (%) | ≤0.25 |
| Residual solvent (%) Ethyl Acetate+Cyclohexane | ≤0.45 |

*A mucilage is defined as an active acidic polymer dispersion in water neutralized with a base, preferably NaOH, to a specified pH.

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

Properties

- Rapid wetting and Swelling properties
- High-efficient thickening, suspending and stabilizing ability at low dosage
- High clarity
- Superior skin feel
- Compatibility with all kinds of surfactants

Applications

- ✓ Hair styling gels
- ✓ Hand and body lotions, baby lotions
- ✓ Hand sanitizers
- ✓ Moisturizing gels
- ✓ Sunscreen lotions
- ✓ Bath gels
- ✓ Shampoos

Formula Guidelines

Typically used at a level of 0.2-1.5%.

Cautions

Following operations should be avoided, otherwise result in loss of viscosity:

Constant stir or high-speed shear after neutralization
UV irradiation

Storage & Handling

Standard Packing: 20kg/box

Storage: Keep in cool, dry, well-ventilated and lightless place.

Shelf life: 24 months

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Version: A/1

Last update: 2016-01-03