What Is the Difference Between Hydroxypropyl Methylcellulose and Guar Gum?

Keywords hpmc, rdp, vae, hydroxypropyl methyl cellulose
Hits 424
URL https://www.tophpmc.com/article.html

1. The differences between hydroxypropyl methylcellulose and guar gum are as follows:

The viscosity of **Hydroxypropyl Methyl Cellulose** is not as high as that of guar gum, and the thickening effect is not as good as that of guar gum. Guar gum is severely agglomerated with water and is difficult to stir. Sodium carboxymethyl cellulose Agglomeration is not serious when exposed to water, guar gum is not resistant to high temperatures, and sodium carboxymethyl cellulose can withstand high temperatures below 220 degrees.

2. Hydroxypropyl methylcellulose

Hydroxypropyl methylcellulose, also known as hypromellose, cellulose hydroxypropyl methyl ether, is made of highly pure cotton cellulose as raw material, and is specially etherified under alkaline conditions be made of.

(1) Main purpose:

① Polyvinyl chloride: Used as a dispersant in the production of polyvinyl chloride, and is the main auxiliary agent for the preparation of PVC by suspension polymerization.

② Construction industry: As a water-retaining agent and retarder of cement mortar, it makes the mortar pumpable. Used as a binder in plaster, plaster, putty powder or other building materials to improve spreadability and prolong operation time. It can be used as a paste tile, marble, plastic decoration, paste enhancer, and can reduce the amount of cement. The water retention properties of HPMC prevent the slurry from cracking due to drying too fast after application, and enhance the strength after hardening.

③ Ceramic manufacturing industry: widely used as a binder in the manufacturing of ceramic products.

④ Paint industry: As a thickener, dispersant and stabilizer in the paint industry, it has good compatibility in water or organic solvents. As a paint remover.

⑤ Ink printing: As a thickener, dispersant and stabilizer in the ink industry, it has good compatibility in water or organic solvents.

⑥ Plastic: used as mold release agent, softener, lubricant, etc.

⑦ Pharmaceutical industry: coating materials, film materials, rate-controlling polymer materials for slow-release preparations, stabilizers, suspending agents, tablet binders, and viscosity-increasing agents.

⑧. Others: This product is also widely used in leather, paper products, fruit and vegetable preservation and textile industries.

Hydroxypropyl Methylcellulose

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3. Guar gum

Cationic guar gum is a water-soluble high molecular polymer, its chemical name is guar hydroxypropyl trimethyl ammonium chloride. It uses natural guar gum as a raw material to remove the epidermis and germs and the remaining endosperm part, which mainly contains galactose and mannose. After drying, crushing and pressurizing hydrolysis, it is precipitated with a 20% ethanol solution, centrifuged, dried, and lost water. Glycidyl ether trimethyl ammonium chloride reaction system.

(1) Performance

Solubility has outstanding dispersing ability in cold water and hot water, will not cause agglomeration, and improve the convenience of manufacturing and production operations. The compatibility of high salt and PH value can quickly expand and dissolve in a wide pH range, and it remains stable even in a system with high salt content. Due to the uniform distribution of nitrogen content, the chemical structure has more affinity than similar products, and has good compatibility with anions, zwitterions and surfactants, and can be used in various surfactant products.

(2) Purpose:

①. Paper additives

Studies have shown that guar gum can meet the zero-emission requirements of modern factories. It can maintain or improve the evenness of paper while improving paper retention and water filtration. It is a promising environmental protection additive.

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Address	{value_author_address}
Contact Person	{value_primary_contact}
Mobile Number	{value_author_phone_number}
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