TDS of EPEG 3000 (C6 polycarboxylate ether monomer)

Description

EPEG 3000 is a kind of main raw material (polycarboxylate ether monomer) for producing Polycarboxylate superplasticizer with excellent slump retention and good adaptability. It is produced with vinyl ethers of Diethylene Glycol and ethylene epoxide as main raw materials.

Chemical formula

CH2=C-O-CH2-CH2-O-(CH2CH2O)n-H

Technical Principle

Due to the special molecular structure, the space resistance of the polyether side chain is reduced, the swing of the side chain is more free, and the cohension and entanglement of the polyether side chain is improving

Characteristics：

1. Polycarboxylate superplasticizer with excellent slump retention and good adaptability is formed by EPEG 3000 copolymerized with

acrylic acid. The synthesized PCE has good dispersion and slump retention, high adaptability and good viscosity reducing effects. It is especially suitable for projects using the mud and gravel with poor quality and the high content of sediment or with high requirements for concrete.

2. C4 and C5 macromonomers usually react at 30℃-40℃, while EPEG C6 monomers have very low requirements for reaction temperature, which can be completed at room temperature higher than 5℃ without heating.

3. EPEG monomer can be reacted by one-pot method, which means that the prepared dripping solution can be added to the reaction system at one time and the reaction can be completed by stirring for 30-40 minutes. The synthetic water-reducing agent also has excellent performance, which can greatly simplify the production process of polycarboxylate superplasticizer.

Enterprise Quality Standard

1.Appearance:White or light yellow flaky solid

2. Moisture: ≤0.4%.

3.Hydroxyl Value mg KOH/g: 18.7±2.0

4.pH value (5% aqueous solution): 6.0-10.0

5.Double Bond Retention: ≥93% .

Packing: Packed in 25 kg plastic woven bags.

Storage and Transportation

It is non-toxic, nonflammable and can be shipped as general chemical, stored at dry, ventilated place, away from sunshine and rain.

Shelf validity: one year

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