CHARING
长林建业

Technical Datasheet

Polycarboxylate Superplasticizer

PC 6030E

Product Description

PC 6030E is a polycarboxylate superplasticizer in granule form with a high water reducing rate and good early strength.

It is 100% soluble in water and is based on EPEG 6000 monomer together with amino and sulfonic acid group monomers, which provides both high water reduction and accelerated early hydration of cement.

Specifications

Appearance	Buff or off-white granule
Active Content	≥97%
Bulk density	500-800 g/L
pH value(20°C, 5% solution)	5.0-9.0
Water reducing rate	≥25%
Chloride content (Cl)	≤0.06%
Alkali content	≤0.3%
Ratio of bleeding rate	⩽60%
Shrinkage ratio	⩽110%
1d compressive strength ratio (C25)	⩾180%
3d compressive strength ratio (C25)	⩾170%
7d compressive strength ratio (C25)	⩾145%
14d compressive strength ratio (C25)	⩾135%
28d compressive strength ratio (C25)	⩾120%

Application Range

Based on its characteristics, early strength polycarboxylate superplasticizer is mainly used in the following fields:

-Precast concrete components, such as pipe segments, piles, walls and stairs. The main purpose is to improve mould turnover and shorten production cycles.

-Low-temperature construction: In winter or cold regions, ordinary concrete develops strength slowly. Early strength water reducers offset the delay caused by low temperature and help keep the project on schedule.

-Emergency repair: repair projects for roads, bridges and similar works that must be opened to traffic quickly.

Dosage

The recommended dosage is 0.2-0.5% of the cementitious material by weight. The exact dosage should be confirmed by trial testing.
This product should not be mixed with naphthalene-based water reducers.
Mixing with other chemical admixtures should be verified by trial testing before use.

Key Properties

-The water reducing rate is more than 25%, and it greatly improves the fluidity of concrete at the same water content.
- In the spray drying process of traditional polycarboxylate powder water reducers, high temperature can more or less damage the polycarboxylic acid groups and thereby greatly reduce the performance of the product after the liquid is converted into a solid. PC 6030E is manufactured by a special process, so that the carboxylic acid groups are not destroyed during the powder manufacturing process and the performance of the original liquid mother liquor is retained.
-Good solubility and fast dissolution rate.
The particles are uniform and the specific surface area is large, so it dissolves quickly in water, and there are no obvious impurities after dissolution.

Packaging and Storage

A. Standard Packing: 25 kg bags, outer HDPE bag with inner LDPE bag
B. Big Bag or other special packages are possible on request.
20GP:14Tons on pallets, 18Tons without pallets
40HQ:28Tons on pallets or without pallets
Store it in a cool, dry place below 30° C , protected against humidity and pressure. Storage time should not exceed 12 months. Please use it up within 60 days after the bags are opened.

Safety Notes

The information above is based on our present state of knowledge and experience. It does not absolve users from carrying out their own tests and trials to confirm suitability for their specific application, as formulations and raw materials may vary. We reserve the right to modify our products without prior notice

Company Information

Shandong Charing Industry Co., Ltd.
Jinan City,Shandong Province, China
sdcharing@sdcharing.com
www.sdcharing.com