CHARING
长林建业

Technical Datasheet

Polycarboxylate Superplasticizer

PC 6030E

Product Description

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

It has a high water reducing rate and good early strength, and is 100% soluble in water. It is based on EPEG 6000 monomer together with amino and sulfonic acid group monomers, which gives both high water reduction and early hydration of cement.

Specifications

Appearance	Buff or off-white granule
Moisture content	≤3%
Active Content	≥97%
Bulk density	500-800 g/l
pH value(20°C, 5% liquid)	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. 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. And please use it up within 60 days after the bags are opened.

Safety Notes

The above data is in accordance with our knowledge, but don't absolve the clients carefully checking it all immediately on receipt. To avoid the different formulation and different raw materials, please do more testing before using it. We reserve the right to alter our product and without informing in advance.

Company Information

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