

TECHNICAL DATA SHEET

JF POLYCARBOXYLATE SUPERPLASTICIZER

1. Description

JF PCE-06 is a new generation of Eco-friendly high performance polycarboxylate ether superplasticizer powder developed by our company with DD-909 (TPEG2400) as main raw material.

2. Technical Principle:

The main chains of the high performance polycarboxylate water reducing agent molecular are absorbed onto the surface of the cement granules, which can effectively hinder the hydration, enhance fluidity retention ability, the branch chains surrounded by the cement granules, play dual roles of steric hindrance and electrostatic repulsion, it is totally different from conventional water reducing agents, so the high performance polycarboxylate water reducing agent has better dispersion and water reducing effect.

3. Advantages/Characteristics:

- 1) Polycarboxylate ether superplasticizer powder with solid content : 97% min. (If it is used for ready mix concrete or precast concrete, please add PCE powder to water to get a solution with solid content 20% or 10% before use).
- 2) With a high slump retention ability, enhance cohesion, without concrete segregation.
- 3) With a good dispersion, an excellent adaptability to different cements, and good water-reducing properties.

4. Usage

- (1) A recommended dosage is 0.16%-0.4% by the weight of cementitious materials. Actual dosages should be determined by mixture design test according to concrete strength grade.
- (2) Concrete test must be carried out before utilization.
- (3) This product is forbidden to be mixed with naphthalene sulphonate.
- (4) Compatibility test must be done when it is used together with other admixtures.

5. Application

- (1) It is applicable to various ready mix concrete, precast concrete and especially dry mix mortar. It can also be used for oil well cementing operation.
- (2) It is particularly applicable to various construction works with high performance requirements for the concrete, such as water industry, marine works, seaports, traffics, electric powers etc.
- (3) It is applicable to the special concrete, such as high strength, high durability, self-compacting concrete.

6. Quality Specification

Item	Unit	Standard
Appearance	/	White or light yellow powder
Density	kg/m ³	500 ± 50
pH (23°C)	/	6.0 ± 1.0
Solid Content	%	97.0 ± 1.0
Moisture Content	%	≤ 3.0
Water Reducing Ratio	%	≥ 25
Cl-	%	≤ 0.02
Alkali Content	%	≤ 0.3

7. SAFETY AND HANDLING PRECAUTIONS:

Polycarboxylate superplasticizer, if direct and prolonged contact with eyes and skin may cause irritation. Wash the affected area of body with plenty of tap water immediately. If irritations persist for long time, please contact with doctor.

8. PACKING AND STORAGE:

Package: Packed in 25kg plastic woven bags with PE inner liner, 16 mt with pallets loaded in one 20' GP, 27 mt with pallets loaded in 40' HQ by sea, 25.5 mt with pallets loaded in 40' HQ by train
Shelf time: 0°C-40°C the shelf life is 12 months.
