

TECHNICAL DATA SHEET

WOTAICHEM PCE 6033

PCE6033 Sustained-Release Polycarboxylate High-Performance Water-Reducing Agent Flakes.
Issued by: SHANDONG YUANWANG IMPORT & EXPORT CO., LTD.

PRODUCT DESCRIPTION

PCE6033 is an eco-friendly, high-performance polycarboxylate water-reducing agent tablet developed using EPEG 912 (MW 3000) as the primary raw material.

TECHNICAL PRINCIPLE

The main chain of polycarboxylate molecules adsorbs onto cement particle surfaces, effectively delaying hydration and enhancing fluidity retention. Side chains surround cement particles, providing steric hindrance and electrostatic repulsion. This dual mechanism differs fundamentally from traditional water reducers, delivering superior dispersion and extended slump retention.

KEY ADVANTAGES

Feature	Benefit
97% Solid Content	Fully water-soluble. For ready-mix/precast concrete, dissolve tablets in water to achieve 20% or 10% solution concentration before use.
Extended Slump Retention	Prevents concrete segregation while enhancing cohesion.
High Compatibility	Excellent adaptability to diverse cement types with prolonged workability.
Thermal Resistance	Stable performance up to 50°C.

SPECIFICATIONS

Parameter	Unit	Standard Value
Appearance	-	White/pale yellow flakes
Bulk Density	kg/m ³	450 ± 50
pH (23°C)	-	6.0 ± 1.0
Solid Content	%	97.0 ± 1.0

SHANDONG YUANWANG IMPORT & EXPORT CO.,LTD

Parameter	Unit	Standard Value
Moisture Content	%	≤ 3.0
Water Reduction Rate	%	≥ 15
Chloride Ion Content	%	≤ 0.02
Alkali Content	%	≤ 0.3

APPLICATIONS

- ✓ Ready-mix concrete for industrial/civil construction
- ✓ Low-grade commercial concrete
- ✓ Critical engineering projects:
 - Hydraulic structures • Marine/port facilities
 - Transportation infrastructure • Power plants
- ✓ Special concretes:
 - High-strength • High-durability • Self-compacting

USAGE & PRECAUTIONS

Dosage: 0.1%–0.5% of cementitious materials weight (Optimize via mix design trials)

Mandatory: Conduct performance tests prior to use

Incompatibility:

! DO NOT blend with naphthalene sulfonates

Compatibility Testing: Required when combining with other admixtures

PACKAGING & STORAGE

Attribute	Specification
Packaging	25 kg woven PP bags with PE liner
Storage Temp.	< 40°C in dry conditions
Stacking	No stacking/compression (prevents caking)
Shelf Life	12 months (unopened, 0–40°C)
Post-Opening	Use within 60 days

CONTACT

SHANDONG YUANWANG IMPORT & EXPORT CO., LTD.

Office: Hanyu Finance Valley, No. 7000 Jingshi Road, Jinan, Shandong, China

Website: www.wotaichem.com