



Shandong Zhuoxing Chemical Co., Ltd.

Zibo Zhuoxing Enterprises Co., Ltd.

TDS of SPS-28 Water-Reducing High-Performance PCE Flake

Description

SPS-28 is a new-generation, environmentally friendly, high-performance PCE powder characterized by high water-reducing and full water solubility.

Technical Principle

With EPEG-3000 as the main raw material, by optimizing the side chain conformation and conducting free radical copolymerization at low temperature, the efficient dispersion and stable slump retention were finally achieved through the synergistic effect of steric hindrance and electrostatic repulsion.

Advantages/Characteristics

- (1) Solid content: 97% min.
- (2) Rapidity and completely dissolved in water.
- (3) High water-reduction rate and excellent adaptability to different types of cement and admixtures.
- (4) Compatible with early strength agent, air entraining agent, defoaming agent, etc., supporting multi-functional composite applications.



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Application

Applicable to various concrete construction projects such as high-strength, self-compacting, and mass concrete, it significantly enhances construction efficiency and structural durability.

Quality Specification

Item	Unit	Standard
Appearance	/	Off-white or light yellowish flake
Density	kg/m ³	500±50
pH (23°C)	/	4.0±1.0
Solid Content	%	≥97.0
Moisture content	%	≤3.0
Water Reducing Ratio	%	≥25
Cl ⁻	%	≤0.02
Total Alkali content	%	≤0.3

Usage Instructions and Precautions

(1) Recommended dosage is 0.2%-0.5% by weight of binding materials. Specific dosage must be determined through mix design testing.

Web site: www.zhuoxingchem.com sales@zhuoxingchem.com



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(2) Testing must be conducted prior to use.

(3) This product must not be mixed with naphthalene sulfonate admixtures.

(4) Compatibility testing is required when used with other admixtures.

Storage and Transportation Requirements

Packaging Specifications: Packaged in 25kg plastic woven bags with PE inner liners.

For sea freight: 14 tons (including pallets) per 20 foote standard container; 28 tons (including pallets) per 40 foote high cube container.

For rail freight: 25.5 tons (including pallets) per 40 foote high cube container.

Transportation: Classified as non-hazardous chemicals; transport as general cargo. Protect from rain and moisture during transit.

Storage Conditions

Store in a cool, dry, well-ventilated area. Strictly avoid moisture exposure, as it may cause clumping and affect performance. Protect from direct sunlight and high temperatures (recommended ambient temperature $\leq 40^{\circ}\text{C}$).

Shelf Life

12 months. Use after testing if stored beyond this period.

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