



ACC Superplasticizer SNF—ACSP-2P

Sodium Naphthalene Formaldehyde—Standard high efficiency type

Description

This product is a brown powdery superplasticizer mainly made from β -naphthalene sulfonate formaldehyde condensate, which offer better comprehensive properties to the concrete and has the characteristic performance of high dispersion and moderate low air-entraining with low water/cement ratios. Also, it can be dissolved in water and effectively reduce initial stage hydration heat to control temperature cracking and enhance concrete compressive strength. When applied with mixtures like fly ash and grinded slag, it can effectively prevent and control temperature cracking for large volume concrete; meanwhile, it has low shrinkage and can effectively prevent shrinkage cracking, thus to improve construction quality. It is formulated to comply with specifications for chemical admixture for concrete: ASTM C 494 for Type A, Type D and Type F.

Features

- Good compatibility with various cementitious materials and offer excellent strong adsorption and dispersion effects to the cement.
- High water-reducing and early strength.
- Easy addition during batching process.
- Desirable workability and dispersion ability.
- Strong adaptability and excellent durability.

Specifications

Item	Value
Appearance	Brown powder
Solid content	92% min
Moisture	8 max
pH value	8 \pm 1
Na ₂ SO ₄ content	5% max
Chlorine ion content	0.5% max
Fineness	0.5 max
Water reducing rate	16 min
Cement paste fluidity	180 min
Surface tension	70 \pm 2 mN/N

Application

This product is widely used in ready-mix, cast-in-site concrete, premixed concrete and other concrete construction fields such as industrial and civil buildings, traffic, water conservancy, municipal, port, etc.

Usage

The average dosage is usually 0.5-1.5% based on cementitious materials. The optimum dosage may depend on the specific requirements of concrete and materials. It is recommended that testing be done to determine the suitability of this product to your concrete mix design. When adding it in the remix container, we recommend the dosage together with the gauging water and the mixing time after dosage of the agent depends on the mixing energy, whereas a minimum mixing time of 15 min must be followed.

Tested Concrete Performance Index

Test Item		National standard	Typical value
Water reducing rate		14% min	≥21% (on concrete)
Ratio of bleeding rate		90% max	≤60%
Gas content		3.0% max	≤2.5%
Difference in setting time	Initial set	-90----+120 min	-90----+120 min
	Final set		
Ratio of compressive strength	1d	140% min	140% min
	3d	130% min	130% min
	7d	125% min	125% min
	28d	120% min	120% min
Ratio of shrinkage	28d	135% max	110% max

1. Recommended dosage: 1.0-1.5%.

2. Temperature in lab room 17-25°C, relative humidity ≥ 50%; Curing room temperature 20±1°C.

3. 40% Dry material SNF Liquid solution for Mortar test with cement 450gm and Sand 1350gm used for each mix.

Packaging and Storage

- Solid products are packed in plastic woven bag with PE liner. 25kg/bag, without pallet, 17MT/20GP; or 25kg/bag, with pallet, 14MT/20GP. Store in a ventilated place for two years.
- The effective storage period is 6 months. After the expiration, it can still be used after passing the test.

Health and Safety

Wear suitable protective equipment to prevent contact with eyes, skin and clothing. Keep and store in a cool & dry place and keep away from direct heat and light. For further information please follow the Material Safety Data Sheet.

Limited Warranty Notice

While ACC guarantees our products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with ACC that the product is suitable for the intended use. Technical characteristics are listed for guidance only.

Technical Services

We have a perfect after-sales service mechanism, provide technical advice for users, product performance can reach the best user satisfaction effect.

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