



ACC Superplasticizer SNF—ACSP-1

Sodium Naphthalene Formaldehyde—Standard high efficiency type

Description

This product with sodium naphthalene formaldehyde condensation as the main body, with super plasticizing, efficient water reduction, early strength, enhancement and other characteristics, can be used to prepare high strength concrete, flow concrete, impermeable concrete, steam raised concrete and so on.

Specifications

Item	Value
Appearance	Brown liquid
pH	8 ± 2
Total alkali content	6% max
Solid content	38.0 ± 1.5%
Liquid Density	1.22 ± 0.03g/cm ³ (25°C)
Cl content	0.3% max
Sodium sulfate content	8% max

Application

- This product is widely used in all kinds of industrial and civil construction, such as water conservancy, municipal, port, traffic and other projects.
- This product is suitable for the casting of foundation, beam, plate and column of high-rise buildings.
- This product has good adaptability to Portland cement, ordinary Portland cement, slag cement and other kinds of cement.

Features

- The product can meet the technical requirements of “High efficiency superplasticizer” in GB8076-2008 <Concrete Admixture>.
- The product is brown liquid.
- The recommended dosage is 0.5-1.0% of the amount of cementite (solid). The user should determine the best dosage according to the specific technical performance requirements of the project and the working conditions through concrete trial mixing, and the water reduction rate can reach 14-24%. Other solid content products can be provided.
- With the same slump and cement dosage, the 28-day compressive strength ratio is 120% higher.
- With the same slump and strength, the amount of cement can be saved by 10-20%.
- Under the same water-cement ratio, the slump of concrete can be increased by 100-150mm, which is used for preparing fluid concrete and pumping concrete. If adopt after admixture method the effect is better.
- When used in the production of autoclaved concrete components to make the compressive strength ratio of autoclaved concrete greater than 120% or shorten the autoclaved time of 2-3 hours.



Tested Concrete Performance Index

Test Item		National standard	Typical value
Water reducing rate		14% min	>14%
Ratio of bleeding rate		90% max	<80%
Gas content		3.0% max	1.5-2.5%
Difference in setting time	Initial set	-90----+120 min	-90----+60 min
	Final set		
Ratio of compressive strength	1d	140% min	160% min
	3d	130% min	160% min
	7d	125% min	140% min
	28d	120% min	120% min
Ratio of shrinkage	28d	135% max	125% max

Usage and Precautions

- When this product is liquid, it can be directly injected into the mixture together with the mixing water for stirring. The measurement of admixture should be accurate. If the weight is calculated by volume, it is necessary to convert the weight into volume. Can also be used after mixing method, to cement, aggregate and 60% of the mix water fully stirred, then add admixture and the rest of the mix water.
- Users in the first use of this product or temporary replacement of cement varieties, please according to the construction requirements, conditions, reference to this manual, the dosage and method of the necessary test match, in order to obtain the best technical, economic benefits.
- When calculating the water consumption of concrete, the amount of water in liquid admixture should be considered.
- When the temperature is lower than 15°C, there will be crystal precipitation, in order to ensure quality should pay attention to heating and insulation.
- This product is non-toxic and non-flammable, but should not be ingested. If splash into eyes or skin, rinse immediately with running water.
- When the product is powder, should mixed with water and mixed with cement and aggregate. The mixing time should be extended appropriately. It is better to dilute the powder into water agent in proportion, referring to the usage of water agent.
- This product cannot be mixed with polycarb. Need to clean containers and pipes before using different superplasticizer.

Packaging and Storage

- Liquid products are packed in plastic drums, 200kg or 1000kg per drum. Or as per customer's requirements.
- The effective storage period is 6 months. After the expiration, it can still be used after passing the test.

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