

Concrete Admixtures

Know-how Transfer

Amino-based Superplasticizer (AS)

Description

Amino-Arylsulphonate Phenol Formaldehyde Condensate (AS) is a high range of water reducer, commonly referred to as a superplasticizer. It is an aqueous solution of a modified amino sulfonate and organic compounds. It contains no chloride and meets the requirements of chemical admixture specifications for concrete: ASTM C 494, Type F.

AS is non air-entraining, low addition rate, low slump loss, thus decrease the concrete viscosity. At normal condition, it can be prepared for flowable concrete of C60-C80 without using strength enhancing agent.



Uniformity Criteria

Items	Specification
Visual Appearance	Brownish Red Color Powder Form
Solid Content (%)	93
Fineness (0.315mm remains), %	≤15
Density (g/cm ³)	1.17 ± 0.02
Cement Paste Flow (mm)	230
Alkali Content (%)	0.5 max
Chloride Content (%)	0
pH Value	7~9
Steel Bar Corrosion	None

Advantages

- Low addition rate: For solid product, the addition rate is 0.4-0.6%. Over addition will cause cement particles dispersed, which will reduce water reservation and increase bleeding and segregation.
- Low slump loss: It can satisfy the requirement of long time and distance transportation. It is ideal for commercial and pumping concrete.
- Effective durability. It has the property of high volume stability, anti-seepage and anti-freezing.
- Wide applicability. It can be used with different variety of cement.
- Low alkali content: It can prevent alkali-aggregate reaction. When it is used in winter, there is no crystal.
- AS can make high-slump flowing concrete. It allows concrete to be produced with very low water/cement ratios at low or normal slumps.
- Compatible with Portland cement, normal Portland cement, Portland slag cement, fly-ash cement and Portland pozzolanic cement etc.

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Cautions

- Comparative test is required for the decision of the optimal dosage and concrete mixing ratio.
- When making high-strength concrete and/or ultra-high-strength concrete, not only corresponding high grade cement and reasonable aggregate grading should be required, but also requirements of related standards should be followed.
- The consumption of mixing water needs to be strictly controlled in construction.
- The concrete mixed with this product need to extend the stirring time and intensify curing.
- When using liquid form of this product, water content should be deducted from the admixture when calculating the concrete mixing ratio

Package, Transportation and Storage

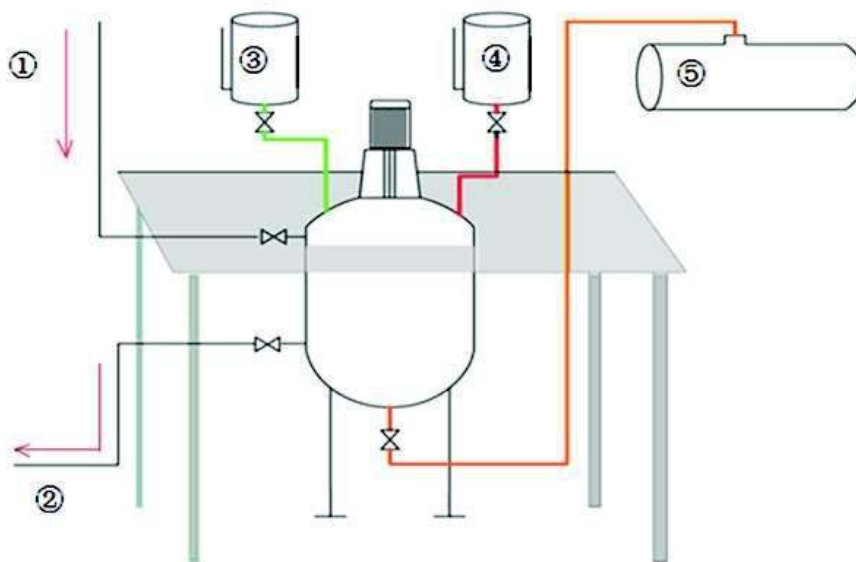
For powder: Woven fabric bag with plastic liner.

Net weight: 25kg±0.25kg,

For liquid: Bulk package in metal drum.

Net weight: 200kg. It must be sealed in case of leakage or water evaporation also Tank truck is allowed

Major equipments (liquid) (10 Tons per day)



- ① cold water ② hot water
③ measuring tank for hot water
④ measuring tank for formadehyde
⑤ Storage tank for finished products

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- One reactor and one measuring tank: 9,500USD
- Pipelines and operating platform materials: 2,000USD
- One raw material storage tanks with volume of 20 tons: 5,000USD
- One tank for finished products with volume of 10 tons: 3,500USD
- Additional equipment (including electrical cabinet, pipeline pump): 3,500USD
- Installation and commissioning costs: 2,000USD
- Total equipment cost: about 25,500USD
- Daily operating Labor: one or two

Raw material

Phenol, formaldehyde and sodium p-amino benzene sulfonate

Project Investment

- Producing Equipments: 25,500USD
- Producing workshop, warehouse and office occupancy: 200-500 m². Clear height of workshop factory: 6-8m. Estimated cost: 15,000 - 35,000USD
- Cash in flow: 45,000USD to 750,000 USD
- Other costs: 10,000USD to 15,000USD
- Manufacturing know-how: 50,000USD
- Total estimated cost: 155,500USD to 200,000USD

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