TECHNICAL DATA SHEET

FLOREY® Sodium Lignosulphonate

Technical Data Sheet (TDS)

CAS Number: 8061-51-6 EC Number: 617-124-1

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Product Description

Sodium Lignosulphonate is an organic compound with the chemical formula C20H24Na2O10S2. It is a yellow-brown agglomerated powder with a slight odor. Non-toxic, easily soluble in water and alkaline solution, precipitated in acid, with strong dispersion ability. Sodium Lignosulphonate can be used as an additive for polymers and concrete, with advantages such as low cost and environmental friendliness.

Applications

Concrete water reducing agent: It is a powdery low air-entraining retarding and water reducing agent, belonging to the anionic surface active substance. It has adsorption and dispersion effects on cement and can improve various physical properties of concrete. It reduces water consumption by more than 13%, improves the workability of concrete, and significantly reduces the initial hydration heat of cement. It can be compounded into early strength agents, retarders, antifreeze agents, pumping agents, etc.

Refractory materials and ceramic body reinforcing agent: In the manufacturing process of large-sized wall and floor tiles and refractory bricks, the raw material particles of the body can be firmly bonded, and the dry body strength can be increased by more than 20%-60%.

Product Specification

Item	Standard
Appearance	Yellow-brown agglomerated powder, slight odor
Assay	≥95%
Water insoluble content	≤1.5%
Water content	≤3.5%

Guidelines for Use

1. As retarder: Sodium Lignosulphonate can significantly delay the setting time of concrete. When the dosage is below 0.15%, the logarithm of the initial setting time is directly proportional to the dosage, that is, when the dosage is doubled, the initial setting time is delayed by about ten times, which extends the working time from a few hours to a few days without loss of strength. This is an important advantage, especially in hot weather and for longer construction periods.

2. As water reducer: It can enhance workability. Under the condition of constant water cement ratio (W/C), adding Sodium Lignosulphonate can improve workability. In this case, Sodium Lignosulphonate acts as a plasticizer. When the dosage is less than 0.1%, the degree of improving workability is proportional to the amount added.

Storage and Handling

Storage Temperature: Products should be stored in a 0°C-40°C temperature environment, protected from direct sunshine, rain and water ingress, impurities and moisture loss.

Shelf Life: Sodium Lignosulphonate has a minimum shelf life of 12 months. Depending on storage conditions, the shelf life may be greater than stated. Please contact us regarding suitability for use and dosage recommendations if the shelf life has been exceeded.

Packaging

This product is available in 25kg bags and 1000kg ton bags.

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