



TDS- Calcium Nitrite

Specifications

English name: Calcium nitrite

English alias: Nitrous acid, calcium salt, Nitrous acid, calcium salt (2:1); Powder

Calcium nitrite, Calcium Nitrite Anhydrous

Molecular formula: Ca(NO₂)₂

CAS No.: 13780-06-8

EINECS: 237-424-2

Molecular weight: 132.089

Appearance: Colorless to light yellow crystalline powder

Solubility (mg/L): Easily soluble in water, slightly soluble in ethanol

Relative density (water=1): 1.23

Melting point: 390°C

Class: 5.1

Powder calcium nitrite index (without crystal water)

Substance	Excellent	First Grade	Qualified products
Ca(NO ₂) ₂ (dry basis)%≥	≥94%	≥92%	92
Ca(NO ₃) ₂ (dry basis) %≤	≤4.5%	≤5.0%	5.0
Insoluble substance in water % ≤	≤1.0%	≤1.5%	2.0
Moisture % ≤	≤1.0%	≤1.0%	2.0
Appearance	White or light yellow powder		

Applications

Calcium nitrite can be used as the raw material for making the antifreeze of concrete and anticorrosive of reinforcing.

It overcomes the disadvantages of alkali aggregate reaction and electrochemical corrosion caused by the sodium Nitrite in the concrete, and improves the performances of concrete in the physical mechanics and endurance, and makes it possible to obtain the excellent concrete .It is a new type of reinforcing bar anticorrosive and antifreeze free from chlorine and alkali aggregate. It has the inaction and protection effect for reinforcing bar, its performance of anticorrosive is better than that of sodium nitrite.

Package

Powder calcium nitrite is in bags of 25kg, 950kg (net weight).

Personal Protection

Store in a cool, ventilated warehouse. Keep away from fire and heat. The package should be sealed and not in contact with air. It should be stored separately from reducing agents, acids and active metal powders, and should not be mixed. Storage areas should be equipped with suitable materials to contain leaks.