



LINYI KEMELE CO., LTD

Tel:+86-155 6329 0155

www.kmchem.com

km19@kmchem.com

Calcium Nitrite Solution

English name: Calcium nitrite solution

English alias: Nitrous acid, calcium salt

Molecular formula: $\text{Ca}(\text{NO}_2)_2$

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

Specifications

Liquid calcium nitrite

Index	Top Grade	Qualified Grade
$\text{Ca}(\text{NO}_2)_2$ (dry basis)% $\geq$	30-33%	30-33%
$\text{Ca}(\text{NO}_3)_2$ (dry basis) % $\leq$	0.8-1.5%	1.5%
Insoluble substance in water % $\leq$	0.1-0.5%	1%
Calcium Hydroxide% $\leq$	-	1%
pH	11-12	12-13
Specific gravity	1.26~1.32	1.26~1.32
Appearance	Yellowish Solution	Yellowish Solution

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

Liquids calcium nitrite is in buckets of 200kg(net weight) or Flexitank (23.4MT).

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.

Storage areas should be equipped with suitable materials to contain leaks.