Calcium Nitrate 50%

CAS No.: 13477-34-4
Formula: $Ca(NO_3)_2$

DESCRIPTION

Calcium Nitrate 50% is an inorganic aqueous solution providing a highly soluble source of calcium and nitrate ions. It is widely used as a set accelerator in cementitious systems, as a nutrient and nitrogen source in agriculture, and as an effective odour-control and coagulation agent in wastewater and industrial processes.

KEY FEATURES

- Rapid set acceleration in concrete and mortar systems
- Highly soluble calcium source for chemical and fertiliser formulations
- Supports early strength development in cold or damp conditions
- Effective odour-control additive in wastewater treatment
- Compatible with most aqueous systems and easy to handle

APPLICATIONS

- Set accelerator for concrete, shotcrete, and drymix formulations
- Calcium and nitrogen source for fertiliser production
- Odour control and sulphide suppression in wastewater treatment
- Additive for rubber, latex, and industrial process systems

TYPICAL SPECIFICATIONS

Parameter	Specification
Calcium Nitrate (% w/w)	≥ 50.0
Calcium (Ca) (%)	≥ 13.0
Copper (Cu) (ppm)	≤ 1.0
Iron (Fe) (ppm)	≤ 2.0
Lead (Pb) (ppm)	≤ 1.0
Manganese (Mn) (ppm)	≤ 0.1
Insoluble Matter (%)	≤ 0.01
pH (25 °C)	7.0 – 8.5
Specific Gravity (28 °C)	≥ 1.47

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This document is subject to revision without notice as new data becomes available.

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PACKAGING

Available in IBCs or bulk liquid form.

STORAGE

Store in tightly sealed containers in a cool, dry, and well-ventilated area. Protect from contamination and extreme temperatures. Shelf life 12 months when stored under recommended conditions.

SAFETY & HANDLING

Corrosive oxidising solution. Avoid contact with combustible materials and organic matter. Use protective gloves, goggles, and suitable ventilation. Refer to the Safety Data Sheet (SDS) for full details.