

CANO®

Calcium Nitrate



CANO® is calcium nitrate supplied as hygroscopic grey granules. It is soluble in water and is intended for agricultural fertilizer formulations and selected industrial processes, including wastewater treatment and concrete accelerating or cold-weather admixture manufacture.

Applications

- Agricultural fertilizer formulations
- Odour control and sludge treatment in wastewater systems
- Concrete accelerating and cold-weather admixture formulations
- Latex coagulation and selected industrial processes
- Molten-salt and regenerable cold-pack manufacture

Important

Use in explosives or other regulated processes is restricted to appropriately licensed operations with an approved specification and risk assessment.

Features / Benefits

- Supplies calcium and nitrate nutrients in agricultural systems
- Hygroscopic granular material with good water solubility
- Can accelerate cement setting in a properly designed admixture
- Suitable for multiple industrial processes where calcium nitrate is specified

Guideline for Use

For agriculture, determine soil, irrigation-water and crop needs before use and follow qualified agronomic advice. For industrial use, follow a validated formulation. Use clean compatible equipment and prevent contamination.

Dosage

Agricultural and industrial rates are application-specific. Establish the final rate from soil and water analysis, crop requirements or formulation trials. Do not use a universal dose across applications.

Compatibility

Calcium nitrate is an oxidizing salt. Keep it segregated from combustible materials, organic materials, reducing agents and other incompatibles stated in the SDS. Confirm compatibility in every industrial formulation.

Agricultural Use

- Base rate on verified soil, water and crop data
- Account for calcium and total nitrogen from all fertilizer sources
- Avoid over-application and comply with local fertilizer rules

Concrete Use

Use only through a controlled mix design or admixture formulation. Trial actual cement, aggregates and admixtures and verify setting time, early strength, durability and reinforcement compatibility before project use.

Limitations

This TDS does not establish fertilizer registration, purity, assay, hydrate form, explosive-grade suitability or compliance with a regulated end use. Confirm these items on the commercial specification and batch documentation.

Product Information

Chemical Identity	Calcium nitrate
Physical State	Granular solid
Appearance	Grey granules
Hygroscopicity	Hygroscopic; protect from moisture
Solubility	Soluble in water
Packaging	25 kg bag
Storage Condition	Cool, dry, closed and segregated from incompatible materials
Fire Behaviour	Noncombustible oxidizer; can intensify fire
Recommended Dosage	Application-specific; establish by agronomic assessment or trials
Grade / Assay	Refer to the current commercial specification and batch CoA

Storage

Store tightly closed in a cool, dry, well-ventilated place and protect from moisture. Segregate from combustible and organic materials, reducing agents and other incompatible chemicals. Keep packaging clean, undamaged and clearly identified.

Basis of Data

Technical information in this sheet is based on ALPAKA product information and general industry references. Values described as approximate are not release specifications. Actual performance may vary with raw materials, formulation, temperature, process and site conditions. Verify critical properties on the current batch documentation.

Precautions

Calcium nitrate may irritate eyes, skin and the respiratory tract. Avoid dust generation and use gloves, eye protection and respiratory protection where the risk assessment requires it. Follow the current product-specific SDS and local oxidizer handling rules.

Fire / Cleaning and Disposal

CANO is not itself combustible, but calcium nitrate is a strong oxidizer and can greatly intensify the burning of combustible materials. Heating may release toxic nitrogen oxides. Keep contamination out of spill material, do not use combustible absorbents and dispose of residues through an authorized route.

Additional Information

For current specifications, application support and trial guidance, contact ALPAKA Chemical Group:
info@alpakagroup.com | +98 933 202 3003 |
www.alpakagroup.com.

Regulatory Use

Fertilizer registration, transport classification and end-use approvals depend on product grade, composition, jurisdiction and intended use. Obtain the applicable documents before sale, transport or use in a regulated application.

Important Notes

The information and recommendations in this Product Data Sheet are given in good faith and reflect ALPAKA's current knowledge of the product when correctly stored, handled and used under normal conditions. Materials, formulations, substrates, production methods and site conditions vary; therefore no warranty of merchantability or fitness for a particular purpose can be inferred from this document. The user is responsible for confirming suitability through representative trials and for complying with applicable laws, standards, approvals and third-party rights. The current commercial specification, batch Certificate of Analysis and product-specific Safety Data Sheet take precedence over this document. Refer to the most recent issue for the product concerned.