

## Technical Data Sheet 产品资料单

# Calcium peroxide

### Product Introduction

Calcium peroxide ( $\text{CaO}_2$ ) is an odorless and tasteless, white or yellowish powder, which is insoluble in water and readily soluble in acid. Calcium peroxide, a very stable peroxide with a high decomposed temperature of  $275\text{ }^\circ\text{C}$ , is not easily decompose at room temperature and slowly release oxygen in humid air or water for a long time. Calcium peroxide has a strong bleaching and sterilization or disinfection without any harm effects on the environment.

### Basic Information

Name: Calcium peroxide

CAS: 1305-79-9

Molecular Formula:  $\text{CaO}_2$

Molecular Weight: 72.08

### Product Information

Test items	Specification
Appearance	Pale yellow powder
Assay $\text{CaO}_2$ , %	$\geq 75.0/50.0$
Moisture, %	$\leq 2.0$
pH (1% suspension)	11~13
Bulk Density, g/L	500~800

### Product Usage

Calcium peroxide, a non-toxic oxidizer with good stability, has the characteristic of long term releasing oxygen. In the aspects of environmental protection, calcium peroxide can be used to improve water quality, lower heavy metal of wastewater and control red tide etc.. In agriculture, calcium peroxide can provide oxygen for plant roots and rice seed coated, improve soil quality. Additionally, calcium peroxide can be used as oxygen fertilizer and bio compound fertilizer. In the aquaculture industry, as oxygen releasing agent, calcium peroxide can adjust the water pH, improve water quality and eradicate pathogens. In the food industry, calcium peroxide can be used for preservation of fruits, vegetables, feed additives, flour whitening and food disinfection. In metallurgy industry, calcium peroxide can be used for dephosphorization and precious metal extraction. Calcium peroxide can be used for rubber hardener / sealer and unsaturated polyester resin initiator. Calcium peroxide can be also used for tooth cleaning agent in daily chemical industry, household sterilizing deodorant. In addition, calcium peroxide can be also used for emergency oxygen supply, cigarette making and coating industry.

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**Packaging:** 25Kg PP-PE Bag.

**Transportation:**

UN number: UN1457.

UN proper shipping name: CALCIUM PEROXIDE..

Transport hazard class (es): 5.1.

Packaging group: PGII..

**Storage:** Keep in a cool, dry, well-ventilated place. Keep tightly closed until used.

Store away from incompatible substance. Keep away from fire and heat source. Seal packaging. Pay attention to moisture and rain. Stored separately with reducing agents, acids, easy (can be) burning materials.