Synthetic Anhydrite SA30

CAS Number: 7778-18-9
Chemical Formula: (CaSO4)

DESCRIPTION

Synthetic Anhydrite SA30 is a high-purity, anhydrous calcium sulfate produced as a white, odorless powder. With a consistent particle size and superior calcium content, SA30 is a versatile mineral additive used in construction materials, cement systems, and industrial formulations. Unlike gypsum, SA30 contains no water of crystallization, enabling higher calcium yield and enhanced performance in dry or thermal environments. It is ideal for applications where low moisture, high whiteness, and reactive calcium content are desired.

KEY FEATURES

- High calcium content and purity
- Lower moisture content than gypsum
- White, uniform powder with excellent fineness
- Effective in cement, soil treatment, plasters, and fillers
- Non-hygroscopic and stable under dry conditions
- Superior solubility for faster reactivity in soil or slurry systems

APPLICATIONS

- Cement additive and set regulator
- Drying agent in paints, plasters, and varnishes
- Soil conditioner and calcium supplement
- Joint compounds, wallboards, and construction gypsum products
- Sulfur source in chemical processing

TYPICAL SPECIFICATIONS

Parameter	Specification
Appearance	White powder
Chemical Composition	$CaSO_4$
Fineness	460–490 kg/m²
Hardness	3.5 (Mohs scale)
Specific Gravity	~2.97
CaO	38.35%
SO_3	50.18%
SiO_2	0.99%
Al_2O_3	0.44%
Fe_2O_3	0.25%
MgO	2.97%
Loss on Ignition	5.89%
TiO_2	—
Total Composition	~90.07%

Note: Values are typical and not intended as product specifications.

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LIMITED WARRANTY INFORMATION.
PLEASE READ CAREFULLY.

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

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PACKAGING

25kg, 1000kg and 1200kg bags.

STORAGE & SHELF LIFE

Store in a cool, dry place away from moisture. Keep packaging sealed when not in use. Stable under recommended conditions. Shelf life is 12 months from production.

HEALTH & SAFETY

Synthetic Anhydrite SA30 is non-toxic and classified as non-hazardous. However, avoid prolonged inhalation or contact with eyes and skin. Use appropriate PPE and consult the Safety Data Sheet (SDS) for full handling guidelines.