

TECHNICAL DATASHEET

CALCINER UNDERFLOW GRADE GYPSUM

PRODUCT DESCRIPTION

Calciner underflow gypsum is a phosphogypsum which is a white or nearly white odourless crystalline solid. Phosphogypsum is a by-product of fertilizer production. The chemical formula for phosphogypsum is $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$.

USES

Calciner underflow grade gypsum is typically used as a desiccant to remove moisture where dry conditions are required and is also used as a soluble source of essential plant nutrients, calcium, and sulphur in the Agricultural industry

PHYSICAL PROPERTIES

Form:	Solid
Appearance:	White
Odour:	Odourless
Density:	1.185 g/cm ³
Molecular Weight:	172.17 g/mol
Toxify:	Non-toxic
pH:	4.0 – 6.0
Free moisture content:	<1.0 %
Purity of gypsum species component:	> 90 %

ELEMENTAL COMPOSITION

Relative oxides	Weight percentage (%)
SiO ₂	0.364
TiO ₂	<0.01
Al ₂ O ₃	0.115
Fe ₂ O ₃	0.325
MgO	0.220
CaO	34.461
Na ₂ O	<0.018
K ₂ O	0.034
P ₂ O ₅	0.360
Cr ₂ O ₃	<0.010
SO ₃	47.877
ZnO	<0.010
Loss on ignition (LOI)	15.809



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MINERAL SPECIES COMPOSITION

Mineral species	Weight percentage (%)
Gypsum	83.5
Bassanite	16.5

PACKAGING

- 1000kg bulk bags
- Tanker

SAFETY PRECAUTIONS

- In case of skin contact, wash with soap and water.
- Avoid contact with eyes-: In case of contact rinse eyes immediately with plenty of water and seek medical attention.
- Refer to the Safety Data Sheet for complete information.