

CHARLES B. CRYSTAL CO., INC

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INDUSTRIAL MINERALS SINCE 1897

BRUCITE SYNTHETIC GRADE S

Brucite Grade S is a synthetic form of magnesium hydroxide. Our product is precipitated from sea water, beneficiated to remove impurities, and ground to 325 mesh. It is ground to a fine powder suitable for polymer compounding. The major use for Brucite is as fire retardant. Starting at about 300°C the Brucite decomposes ($Mg(OH)_2$ into MgO plus H_2O) absorbing heat and releasing water. This reaction is the basis of the fire retardant and smoke suppression property.

CHEMICAL ANALYSIS:

As Sold:	
LOI, 1000°C (H ₂ O)	33.0%
After Loss on Ignition:	
MgO	98.40%
CaO	0.65%
SiO ₂	0.45%
Fe ₂ O ₃	0.12%
Al ₂ O ₃	0.13%
B ₂ O ₃	0.25%

PHYSICAL PROPERTIES:

Appearance	White Powder
Loose Density	30 lb / cu ft
Tapped Density	50 lb / cu ft
Particle Size:	
+100 mesh	typically 0.0% 1% max
-325 mesh	typically 98.0% 96% max

PACKAGING: 50 lb paper bags. or bulk super sacks

ORIGIN: USA