

Magnesium Hydroxide



This product is from a Valetime Trading Source

ORIGIN OF U.S.A.

DETAILS

CAS	1309-42-8	Other names	Brucite; Magnesia magma; Magnesium hydrate; Milk of magnesia
-----	-----------	-------------	--

INFORMATION

Chemical Formula	CaCO ₃ + Mg(OH) ₂
Molecular formula	Mg(OH) ₂

Uses
Magnesium hydroxide is used industrially as a non-hazardous alkali to neutralise acidic wastewaters. Magnesium hydroxide is also used for growing new reefs called Seacrete or Biorock. Magnesium hydroxide also has smoke suppressing and fire retarding properties. This is due to the endothermic decomposition it undergoes at 332°C (630°F) : Mg(OH)₂ → MgO + H₂O. Magnesium hydroxide, in the form of Milk of Magnesia, is used as an antacid to neutralize stomach acid, and a laxative.

Appearance & Colour 325 mesh pulverized dry powder

SPECIFICATION

Chemical Analysis

Parameter	Result	Unit
Mg(OH) ₂	35.7	%
CaCO ₃	63.4	%
SiO ₂	0.17	%
Al ₂ O ₃	0.11	%
Fe ₂ O ₃	0.14	%

Test	Result	Method
%LOI:	36.4	USP 29, p 1298
%Moisture:	0.30	USP 29, p 345
Heavy Metals:	>.002%	USP 29, p 345
Acid Insoluble	0.4%	USP 29, p345
Loose Bulk Density:	44.83 lb/ft ³	
Tapped Bulk Density:	77.30 lb/ft ³	
Raw Ore Density:	157.5 lb/ft ³	

Heavy Metal	Result	Detect Limit	Method
Arsenic	Conforms	NMT 3 ppm	USP 29, p 345
Cadmium	BDL	4.9 mg/kg	USEPA SW846 3050B / ICP 6010B
Cobalt	BDL	12.32 mg/kg	USEPA SW846 3050B / ICP 6010B
Chromium	BDL	12.3 mg/kg	USEPA SW846 3050B / ICP 6010B
Copper	BDL	24.6 mg/kg	USEPA SW846 3050B / ICP 6010B
Lead	Conforms	NMT 3 ppm	USP 29, p 345
Mercury	BDL	.0943 mg/kg	USEPA SW846 3050B / ICP 6010B
Molybdenum	BDL	12.3 mg/kg	USEPA SW846 3050B / ICP 6010B
Nickel	BDL	24.6 mg/kg	USEPA SW846 3050B / ICP 6010B
Selenium	BDL	24.6 mg/kg	USEPA SW846 3050B / ICP 6010B
Zinc	23.3	12.3 mg/kg	USEPA SW846 3050B / ICP 6010B
Iron	BDL	NMT 0.1%	USP 29, p 345
Barium	BDL	Conforms	USP 29, p 345
Mercury II a	BDL	.5□g/g	USP 29, p 345
Sulphur (Sulfur)	No Detection		Electron Dispersive X-ray / TEM
Chlorine	No Detection		Electron Dispersive X-ray / TEM
Asbestos	No Detection		PLM, short report

BDL: Below Detectable Limits



<http://www.valetimegroup.com/>



Disclaimer for Specifications

Every effort is made to ensure that technical specifications are accurate. However, technical specifications included herein should be used as a guideline only and not construed as commitment by any company within or supported by the VALETIME Group. All specifications are subject to change without notice.

This specification sheet was released in June 2008