

PRODUCT SPECIFICATIONS

Hard Burned Magnesia - HBM



Product: Magnesium Oxide, MgO
Cas No.: 1309-48-4

DESCRIPTION

EcoMag's hard burned magnesia (HBM) is produced by roasting high purity caustic calcined magnesia (CCM) at 1400–1600 °C to produce a product with significantly higher packing and bulk densities.

USES

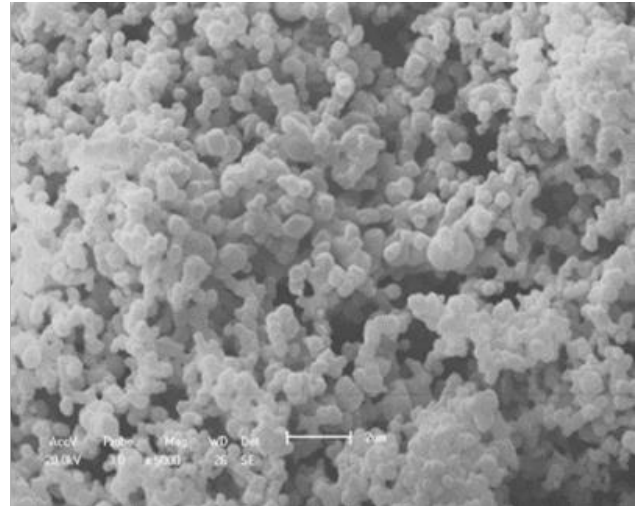
Specialty glasses, building products, industrial, cements, sugar processing.

PHYSICAL AND CHEMICAL PROPERTIES

The following specifications supersede all previous specifications for this product code.

Description	Guaranteed	Typical	Unit
Purity	≥ 99.0	99.2–99.5	%
MgO	≥ 99.0	99.2–99.5	%
Aluminium (Al)	≤ 100	50–90	ppm
Arsenic (As)	≤ 1	0–1	ppm
Boron (B)	≤ 0.06	0.04–0.05	%
Barium (Ba)	≤ 1	0–1	ppm
Calcium oxide (CaO)	≤ 0.8	0.6–0.7	%
Cadmium (Cd)	≤ 1	0–1	ppm
Chloride (Cl)	≤ 70	50–60	ppm
Cobalt (Co)	≤ 10	4–5	ppm
Chromium (Cr)	≤ 10	2–3	ppm
Copper (Cu)	≤ 10	5–9	ppm
Iron (Fe)	≤ 20	10–18	ppm
Potassium (K)	≤ 70	50–60	ppm
Lithium (Li)	≤ 5	0–2	ppm
Manganese (Mn)	≤ 10	5–7	ppm
Sodium (Na)	≤ 70	50–60	ppm
Nickel (Ni)	≤ 1	0–1	ppm
Selenium (Se)	≤ 10	1–2	ppm
Silicon (Si)	≤ 1	0–1	ppm
Sulphate (SO ₃)	≤ 70	50–60	ppm
Titanium (Ti)	≤ 10	0–2	ppm
Zinc (Zn)	≤ 10	1–4	ppm
Other heavy metals	≤ 1	0–1	ppm
Packing density		1.03	g/cm ³
Surface area		2.75	m ² /g
Mean particle size		1.75	µm

TYPICAL PRODUCT CHARACTERISTICS



Agglomerated HBM.

PACKAGING

1 kg bag, 20 kg bag, 50 kg bag, 100 kg drum, 1 tonne bulk bag. Please contact EcoMag for more information.

DISCLAIMER

As the use of the products described in this document is outside the control of EcoMag Limited, we make no representation or warranty concerning the suitability or fitness of those products for any purpose. It is your sole responsibility to ensure that the products will have the qualities and attributes that will make them fit for any ordinary or special purpose required of them, even if that purpose is made known to us at any time. This includes responsibility on your part to conduct in a timely manner all appropriate tests and quality checks on the products and any goods made from them. We disclaim any liability if any products are not suitable or fit for any such purpose.

SPECIFICATION / REVISION

Last revised: 4 June 2018
Revision: 3
Authorised by: Tam Tran, CTO